

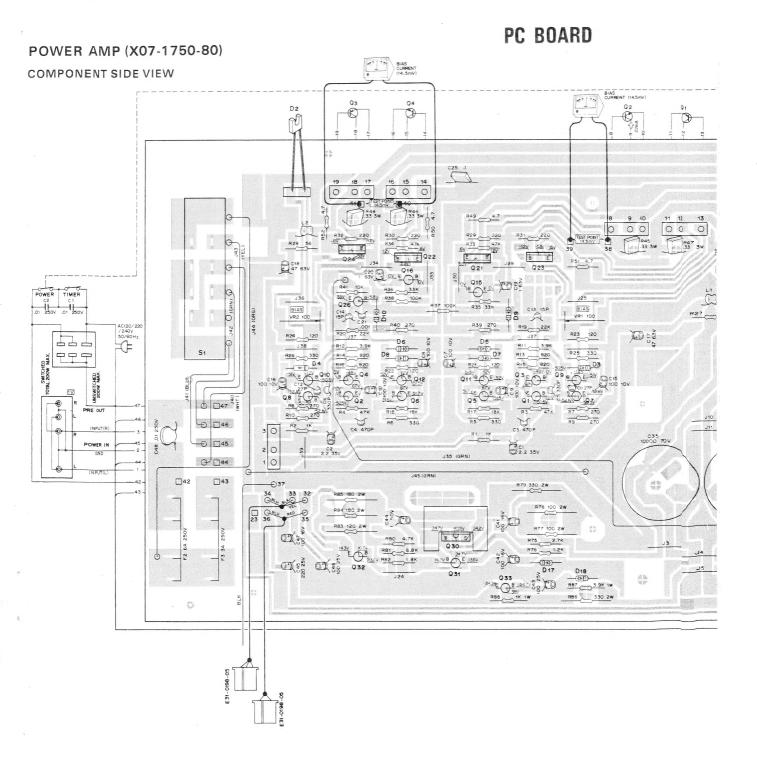
SERVICE MANUAL

MODEL NINE GX (KR-9000GX)

Model NINE GX circuit only is modified power amplifier from Model NINE G.

This Service Manual documents a whole schematic, spec. PCB illustration and parts list.

As for adjustment procedure, disassembly and other items, refer to the Model NINE G Service Manual.





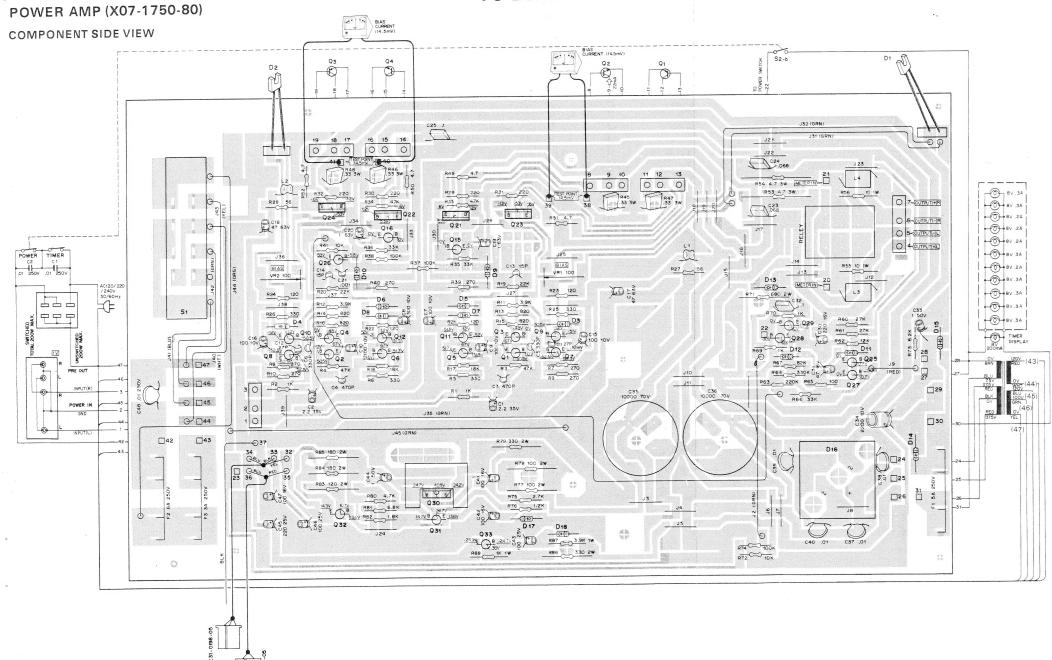
SERVICE MANUAL

MODEL NINE GX

MODEL NINE GX (KR-9000GX)

Model NINE GX circuit only is modified power amplifier from Model NINE G.
This Service Manual documents a whole schematic, spec. PCB illustration and parts list.
*As for adjustment procedure, disassembly and other items, refer to the Model NINE G Service Manual.

PC BOARD



PARTS LIST

Ref. No.	Parts No.	Description	Re- mark
参照番号	部品番号	部品名/規格	備考
TOTAL			
- - -	A20-1479-03 A20-1480-03 A50-0069-03 A50-0070-03	FRONT PANEL (9GX) FRONT PANEL (9000GX) SIDE PLATE L SIDE PLATE R	*
- - - -	B01-0121-04 B01-0122-04 B01-0123-03 B04-0069-03 B07-0230-14	PANEL ESCUTCHEON L PANEL ESCUTCHEON R PANEL ESCUTCHEON MESH PLATE ESCUTCHEON (SHAFT)	
- - -	B07-0234-03 B07-0235-04 B07-0243-04 B07-0244-03 B07-0245-03	ESCUTCHEON (LEVER SW) ESCUTCHEON (POWER) ESCUTCHEON (SPEAKER) ESCUTCHEON (SELECTOR) ESCUTCHEON (LOUD, METER)	materia del prima de constitución de constituc
- - - -	B07-0246-03 B08-0005-04 B08-2017-14 B08-3016-04 B10-0238-03	ESCUTCHEON (FIL,SUBSON) INDICATOR (SELECTOR) INDICATOR (TIMER) INDICATOR (SPEAKER) FRONT GLASS	
- - - -	B20-0422-03 B21-0023-14 B30-0077-05 B30-0157-05 B30-0158-05	DIAL CALIBRATIONS DIAL POINTER LAMP X2 LAMP ASSY LAMP(8V,200MA)	
- - - -	B30-0159-05 B31-0284-05 B31-0287-05 B46-0062-20 B46-0063-00	LED METER (T/S METER) METER (POWER) WARRANTY CARD WARRANTY CARD	UH
	B50-3025-00 B50-3026-00	INSTRUCTION MANUAL(9GX) INST. MANUAL (9000GX)	*
01 ,2 03 -6	C91-0023-05 C52-1756-16	CERAMIC 0.01UF AC250V CERAMIC 560PF K	
- - - -	D15-0171-13 D15-0172-04 D20-0142-03 D21-0450-03 D22-0033-04	DIAL PULLEY PULLEY X4 DIAL SHAFT TIMER SHAFT COUPLING	
***	D32-0082-04	STOPPER (VOLTAGE SELEC)	
- - - -	E03-0007-05 E06-0501-05 E11-0060-15 E13-0415-05 E13-0609-05	AC OUTLET DIN SOCKET PHONE JACK X2 PHONO JACK (4P) PHONO JACK (6P)	
- - -	E14-0107-05 E29-0082-05 E30-0545-05 E30-0580-05	PHONO PLUG (SHORT) TERMINAL (ANT) POWER CORD (9GX) POWER CORD (9000GX)	
-	F01-0311-02	HEAT SINK	
- -	G01-0045-24 G01-0360-04 G01-0361-04	DIAL SPRING COILED SPRING (SPEAKER) COILED SPRING(SELECTOR)	
- -	H01-3041-04 H01-3042-04 H10-1519-02	CARTON BOX (9GX) CARTON BOX (9000GX) POLYSTYRENE FIXTURE	*
-	J02-0104-04 J19-0524-14	FOOT LED HOLDER	

Ref. No. 参照番号	部
_	4ل 4ل
_ _ _	K2 K2 K2 K2 K2 K2
- - - -	K2 K2 K2 K2
	LO
-	NO: NO:
S1 S2	S3 S5
	T9 T9
Q1 Q2 Q3 Q4	V0 V0 V0
-	XO XO X1 X1 X1
POWER A	AM
C3 , 4 C5 , 6 C7 -10 C11 , 12	05 05 02 07
C13 , 14 C15 , 16 C17 , 18 C19 , 20 C21	07 02 02 02 05
C23 , Z4 C25 C30 C31 C32	04 04 02 02 04
033 034 035 , 36 037 -40 041 , 42	02 02 09 05 05
C43 C44 C45 C46 C47	C2 C2 C2 C2 C2
C48	09
F1 F2 F3	FC FC

MODEL NINE GX MODEL NINE GX

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PARTS LIST

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Ref. No.	Parts No.	Description	
参照番号	部品番号	部品名/規格	mar 備者
TOTAL			
-	A20-1479-03 A20-1480-03 A50-0069-03 A50-0070-03	FRONT PANEL (9GX) FRONT PANEL (9000GX) SIDE PLATE L SIDE PLATE R	*
- - - -	B01-0121-04 B01-0122-04 B01-0123-03 B04-0069-03 B07-0230-14	PANEL ESCUTCHEON L PANEL ESCUTCHEON R PANEL ESCUTCHEON MESH PLATE ESCUTCHEON (SHAFT)	
- - - -	B07-0234-03 B07-0235-04 B07-0243-04 B07-0244-03 B07-0245-03	ESCUTCHEON (LEVER SW) ESCUTCHEON (POWER) ESCUTCHEON (SPEAKER) ESCUTCHEON (SELECTOR) ESCUTCHEON (LOUD, METER)	
- - - -	B07-0246-03 B08-0005-04 B08-2017-14 B08-3016-04 B10-0238-03	ESCUTCHEON (FIL, SUBSON) INDICATOR (SELECTOR) INDICATOR (TIMER) INDICATOR (SPEAKER) FRONT GLASS	
- - -	B20-0422-03 B21-0023-14 B30-0077-05 B30-0157-05 B30-0158-05	DIAL CALIBRATIONS DIAL POINTER LAMP X2 LAMP ASSY LAMP(8V,200MA)	
- - - -	B30-0159-05 B31-0286-05 B31-0287-05 B46-0062-20 B46-0063-00	LED METER (T/S METER) METER (POWER) WARRANTY CARD WARRANTY CARD	UH
_	B50-3025-00 B50-3026-00	INSTRUCTION MANUAL (9GX) INST. MANUAL (9000GX)	*
C1 ,2 C3 -6	C91-0023-05 C52-1756-16	CERAMIC 0.01UF AC250V CERAMIC 560PF K	
- - - -	D15-0171-13 D15-0172-04 D20-0142-03 D21-0450-03 D22-0033-04	DIAL PULLEY PULLEY X4 DIAL SHAFT TIMER SHAFT COUPLING	
-	D32-0082-04	STOPPER (VOLTAGE SELEC)	
-	E03-0007-05 E06-0501-05 E11-0060-15 E13-0415-05 E13-0609-05	AC OUTLET DIN SOCKET PHONE JACK X2 PHONO JACK (4P) PHONO JACK (6P)	
- - - -	E14-0107-05 E29-0082-05 E30-0545-05 E30-0580-05	PHONO PLUG (SHORT) TERMINAL (ANT) POWER CORD (9GX) POWER CORD (9000GX)	
-	F01-0311-02	HEAT SINK	
<u>-</u> .	G01-0045-24 G01-0360-04 G01-0361-04	DIAL SPRING COILED SPRING (SPEAKER) COILED SPRING(SELECTOR)	
-	H01-3041-04 H01-3042-04 H10-1519-02	CARTON BOX (9GX) CARTON BOX (9000GX) POLYSTYRENE FIXTURE	*
-	J02-0104-04 J19-0524-14	FOOT LED HOLDER	

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Ref. No.	Parts No.	Description		Re- marks	Ref. No.	Parts No.	Description	
参照番号	部品番号	部品名/	規 格 	備考	参照番号	部品番号	部品名/規	格
_	J41-0033-05 J41-0034-05		() (OGX)		-	J13-0041-05	FUSE HOLDER X6	
-	K23-0289-04				L1 ,2 L3 ,4	L40-1021-03		
_	K23-0290-04		IR MODE)					
_	K23-0303-03				R21 , 22 R25 , 26	R43-1212-15 R43-1233-15		J 2E J 2E
-	K23-0307-03	KNOB (TIMER)			R27, 28	R43-1256-05	FL-PROOF RD56	J 2E
_	K23-0308-04	KNOB (DOLBY CAL)		R29 -32 R39 ,40	R43-1222-15 R43-1227-15		J 2E J 2E
_	K27-0070-04 K29-0299-04							0 22
_	K29-0300-04				R45 -48	R92-0113-05 R43-1247-95		K 3F J 2E
-	L01-1606-15	POWER TRANSFORM	ER		R53 ,54 R55 ,56 R71	R47-5647-95 R47-5410-05	FL-PROOF RS4. 7 FL-PROOF RS10	J 3F J 3A
-	NOS-0127-05				"	R47-5568-15	FL-PROOF RS680	J 3D
_	N08-0128-35 N09-0293-05	GND SCREW PULLEY SCREW X4			R77 , 78 R79	R47-5510-15 R47-5533-15		J 3D
S1	COO 4014 OF	LEUED OUTTON (B)			R83	R47-5512-15	FL-PROOF RS120	J3D J3D
S2	S33-4014-05 S59-1041-05	LEVER SWITCH (PI SWITCH (TIMER)	JWER)		R84 ,85 R86	R47-5518-15 R47-5533-15	FL-PROOF RS180 FL-PROOF RS330	J 3D
_	T90-0083-05	ANTENNA (AM)					FE-FROOF RSSSO	J 3D
-	T90-0083-05	ANTENNA (AM) ANTENNA (FM)			R87 R88	R47-5439-25	FL-PROOF RS3.9K FL-PROOF RS1K	J 3A J 3A
Q1	V01-1105-40	2SA1105F(Y)			VR1 , 2	R12-0052-05	TRIMMING POT 100	
Q2	V03-2580-40	2SC2580F(Y)			RL1	S51-2038-05	RÉLAY	
Q3 Q4	V01-1105-40 V03-2580-40	2SA1105F(Y) 2SC2580F(Y)			Si	S31-2046-05	SLIDE SWITCH (VOL	TAGE)
				1 1	D1 ,2	V11-5100-10	STV-4H(W)	
_	X05-1570-80 X07-1750-80	TUNER PCB ASSY POWER AMP PCB AS	ev.	*	D3 -8	V11-0271-05	1S2076	
-	X11-1510-80	TONE AMP PCB ASS	SY		D9 ,10 D11 ,12	V11-0273-05 V11-0271-05	1S2076A 1S2076	
_	X13-2550-80 X14-1110-80	SPEAKER SELECT F DOLBY PCB ASSY	CB ASSY		D13 ,14	V11-0295-05	W06B	
POWER A		SS'Y (X07-1750-	80)		D15	V11-0271-05	182076	
C1 ,2	C25-6522-57	LL-ELEC 2. 2UF	35WV	\vdash	D16 D17	V11-2101-40 V11-4102-30	M4C-51-12*1 XZ-132	
C3 ,4 C5 ,6	C52-1747-16 C52-1733-16	CERAMIC 470PF	K		D18	V11-0287-05	WZ-240	
C7 -10	C24-1010-71	CERAMIC 330PF ELECTRO 100UF	K 10₩V		Q1 -4	V01-0921-10	2SA921(S),2SA872(E	Ξ)
C11 ,12	C71-1727-05	CERAMIC 27PF	J		Q5 ,6	V01-0198-05	2SA872, 2SA872A	
C13 ,14	C71-1715-05	CERAMIC 15PF	J		Q7 ,8 Q9 ,1Q	V03-1775-06 V03-0451-05	2SC1775(E) 2SC1775 2SC1885(Q,R)	A(E)
C15 ,16 C17 ,18	C24-1010-71	ELECTRO 100UF	10WV		Q11 , 12	V01-0912-20	2SA912(Q,R)	
C19 ,20	C24-1847-61 C24-1810-51	ELECTRO 47UF ELECTRO 1UF	63 W V		Q15 ,16	V03-1845-10	2SC1845(F,E)	
C21	C52-1710-27	CERAMIC 0. 001UF	М		Q21 ,22		2SC1913(Q,R)	
C23 ,24	C46-1768-36	MYLAR 0.068UF	κ		Q23 ,24 Q25	V01-0188-05 V03-0270-05	2SA913(Q,R) 2SC945(R,Q),2SD767	
C25 C30	C46-2010-47 C24-1222-71	MYLAR 0.1UF ELECTRO 220UF	M 16WV		Q26	V01-1023-10	2SA1023(R,Q),2SB72	
C31	C25-1247-67	LL-ELEC 47UF	16WV		Q27	V03-0270-05	2SC945(R,Q),2SD767	'
C32	C46-1710-47	MYLAR 0.1UF	M		Q28	V03-2378-10	2SC2378(R,Q),2SD76	
033	C24-1710-51	ELECTRO 1UF	50WV		Q29 Q30	V01-0954-10 V04-0762-00	2SA954(L,K),2SA984 2SD762 ,2SD330	K(E,F
C34 C35 ,36	C24-1022-81 C90-0413-05	ELECTRO 2200UF ELECTRO 10000UF	10WV 70SV		Q31	V03-0270-05	2SC945(R,Q),2SD767	
C37 -40	C54-2710-39	CERAMIC 0. 01UF	P P		Q32 ,33	V01-0173-05	2SA850, 2SA777(Q, R)	1
C41 ,42	C24-1210-71	ELECTRO 100UF	16WV					
C43	C24-1410-71	ELECTRO 100UF	25WV					
C44 C45	C24-1710-51 C24-1422-71	ELECTRO 1UF ELECTRO 220UF	50WV 25WV					ĺ
C46	C24-1410-71	ELECTRO 100UF	25WV					
C47	C24-1210-71	ELECTRO 100UF	16WV					
C48	C91-0023-05	CERAMIC 0.01UF	250WV					
F1 F2	F05-5022-05 F05-6021-05	FUSE (5A) FUSE (6A)						
F3	F05-3022-05	FUSE (3A)						
				11		1		1

PARTS LIST

Ref.	No. Parts No. 番号 部 品 番 号	Description 部品名/規格	Re- marks 備考
	A20-1479-03 A20-1480-03 A50-0069-03 A50-0070-03	FRONT PANEL (9GX) FRONT PANEL (9000GX) SIDE PLATE L SIDE PLATE R	2 *
C3 , C5 , C7 -	16 C24-1010-71 18 C24-1847-61	LL-ELEC 2 2UF 35WV CERAMIC 470PF K CERAMIC 330PF K ELECTRO 100UF 10WV CERAMIC 27PF J CERAMIC 15PF J ELECTRO 100UF 10WV ELECTRO 47UF 63WV ELECTRO 1UF 63WV CERAMIC 0.001UF M	4

- ① Symbol of new parts
 - In column of parts list, 9GX means model NINE GX (U, M type), 9000GX does KR-9000GX (H type). Part list of TUNER, TONE, SPEAKER SELECT and DOLBY PCB ass'y is

② Parts list of Model NINE GX and KR-9000GX was included in this ma-

not written, refer to the MODEL 9GX service manual. (Parts No. B51-0538-00)

- ③ Reference No. in schematic diagram.
- Abbreviation of "ceramic capacitor" All capacitors and resistors are listed using abbreviations.
- Abbreviations
- Abbreviations of capacitors (Parts No. with initial letter "C"). ELECTRO. Electrolytic capacitor LL-ELEC. Low leak electrolytic capacitor NP-ELEC. Non-pole electrolytic capacitor MICA. Mica capacitor POLYSTY Polystyrene capacitor MYLAR.. Mylar capacitor CERAMIC . Ceramic capacitor TANTAL. Tantalum capacitor Metallized film capacitor . Oil capacitor The unit "UF" is used in lieu of " μ F"
- Abbreviations of resistors (Parts No. with initial letters "R"). . Carbon composition resistor RD. Carbon film resistor FL-PROOF RD Flame-proof carbon film resistor RW. Wire wound power resistor FL-PROOF RS. Flame-proof metal oxide film resistor Metal film resistor 2B Rated wattage 1/8W Rated wattage 1/4W 2H Rated wattage 1/2W ЗА Rated wattage 1W 3D Rated wattage 2W 3F Rated wattage 3W 3G . Rated wattage 4W 3H ... Rated wattage 5W All resistor values are indicated with the unit (Ω) omitted.

A LODI CAIGHOUS COMMING TO	capacitors and resistors.
C	±0.25pF (Used for capacitors only)
D	±0.5pF (Used for capacitors only)
F	±1%
G	±2%
J	±5%
K	±10%
M	
Z	+80%, -20% (Used for capacitors on
P	+ 100%, -0% (Used for capacitors on
Desires DD /	the second of capacitors on

Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

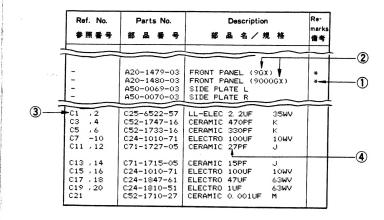
KENSWOOD ELE 1315 E. Watsonc 75 Seaview Drive TRIO-KENWOOI TRIO-KENWOOI
Rudolf-Braas-Str. TRIO-KENWOOL 5, Boulevard Ney TRIO-KENWOOD Kemá stvagen 10A, TRIO-KENWOOL 30 Whiting St., Ar KEN WOOD & LI

MODEL NINE GX MODEL NINE GX

PARTS LIST

参照番号		Description	Re- marks	Ref. No.	Parts No.	Description	Re-
7 /// 17	部品番号	部品名/規格	備考	参照番号	部品番号	部品名/規格	mark 備考
-	J41-0033-05 J41-0034-05	BUSHING (9GX) BUSHING (9000GX)		-	J13-0041-05	FUSE HOLDER X6	T
	K23-0289-04 K23-0290-04	KNOB (TUNE) KNOB (VOL, BAL, NR MODE)		L1 ,2 L3 ,4	L40-1021-03 L39-0080-15	INDUCTOR COIL	
- - -	K23-0291-04 K23-0303-03 K23-0307-03	KNOB (TONE) KNOB (MIC) KNOB (TIMER)		R21 ,22 R25 ,26 R27 ,28	R43-1212-15 R43-1233-15 R43-1256-05	FL-PROOF RD330 J 2E	
-	K23-0308-04 K27-0070-04	KNOB (DOLBY CAL) KNOB (LEVER)		R29 -32 R39 ,40	R43-1222-15 R43-1227-15		
	K29-0299-04 K29-0300-04 L01-1606-15	KNOB (SPEAKER) KNOB X6 POWER TRANSFORMER		R45 -48 R49 -52 R53 ,54	R92-0113-05 R43-1247-95 R47-5647-95	FL-PROOF RD4.7 J 2E FL-PROOF RS4.7 J 3F	
	N08-0127-05	DRESSED SCREW		R55 ,56 R71	R47-5410-05 R47-5568-15	FL-PROOF RS10 J 3A FL-PROOF RS680 J 3D	
-	N08-0128-35 N09-0293-05 S33-4014-05	GND SCREW PULLEY SCREW X4 LEVER SWITCH (POWER)		R77 ,78 R79 R83	R47-5510-15 R47-5533-15 R47-5512-15	FL-PR00F RS100 J 3D FL-PR00F RS330 J 3D FL-PR00F RS120 J 3D	
S2	S59-1041-05	SWITCH (TIMER)		R84 ,85 R86	R47-5518-15 R47-5533-15	FL-PROOF RS180 J 3D FL-PROOF RS330 J 3D	
-	T90-0083-05 T90-0202-05 V01-1105-40	ANTENNA (AM) ANTENNA (FM) 2SA1105F(Y)		R87 R88 VR1 ,2	R47-5439-25 R47-5410-25 R12-0052-05	FL-PROOF RS3.9K J 3A FL-PROOF RS1K J 3A TRIMMING POT 100 BIAS	
Q2 Q3	V03-2580-40 V01-1105-40 V03-2580-40	2SC2580F(Y) 2SC1105F(Y) 2SC2580F(Y)		RL1 S1	S51-2038-05 S31-2046-05	RELAY SLIDE SWITCH (VOLTAGE)	
- - -	X05-1570-80 X07-1750-80 X11-1510-80 X13-2550-80 X14-1110-80	TUNER PCB ASSY POWER AMP PCB ASSY TONE AMP PCB ASSY SPEAKER SELECT PCB ASSY DOLBY PCB ASSY	*	D1 ,2 D3 -8 D9 ,10 D11 ,12 D13 ,14	V11-5100-10 V11-0271-05 V11-0273-05 V11-0271-05 V11-0295-05	STV-4H(W) 1S2076 1S2076A 1S2076 W06B	
		S'Y (X07-1750-80)		D15	V11-0271-05	1S2076	
C1 ,2 C3 ,4 C5 ,6	C25-6522-57 C52-1747-16 C52-1733-16 C24-1010-71	LL-ELEC 2. 2UF 35WV CERAMIC 470PF K CERAMIC 330PF K ELECTRO 100UF 10WV		D16 D17 D18 Q1 -4	V11-2101-40 V11-4102-30 V11-0287-05 V01-0921-10	M4C-51-12*1 XZ-132 WZ-240 2SA921(S),2SA872(E)	
C13 , 14 C15 , 16 C17 , 18	C71-1727-05 C71-1715-05 C24-1010-71 C24-1847-61 C24-1810-51	CERAMIC 27PF J CERAMIC 15PF J ELECTRO 100UF 10WV ELECTRO 47UF 63WV ELECTRO 1UF 63WV		Q5 ,6 Q7 ,8 Q9 ,10 Q11 ,12 Q15 ,16	V01-0198-05 V03-1775-06 V03-0451-05 V01-0912-20 V03-1845-10	2SA872, 2SA872A 2SC1775(E) 2SC1775A(E) 2SC1885(Q,R) 2SA912(Q,R) 2SC1845(F,E)	
C21 C23 , 24 I	C52-1710-27 C46-1768-36	CERAMIC 0.001UF M MYLAR 0.068UF K		Q21 ,22 Q23 ,24 Q25	V03-0468-05 V01-0188-05 V03-0270-05	2SC1913(Q,R) 2SA913(Q,R) 2SC945(R,Q),2SD767	
C30 (1	C46-2010-47 C24-1222-71 C25-1247-67 C46-1710-47	MYLAR 0.1UF M ELECTRO 220UF 16WV LL-ELEC 47UF 16WV MYLAR 0.1UF M		Q26 Q27 Q28	V01-1023-10 V03-0270-05 V03-2378-10	2SA1023(R,Q),2SB725(Q,R 2SC945(R,Q),2SB767	
C33 (C34 (C35 , 36 (C37 -40 (C35)	C24-1710-51 C24-1022-81 C90-0413-05 C54-2710-39 C24-1210-71	ELECTRO 1UF 50WV ELECTRO 2200UF 10WV ELECTRO 10000UF 70SV CERAMIC 0.01UF P ELECTRO 100UF 16WV	,	Q29 Q30 Q31 Q32 ,33	V01-0954-10 V04-0762-00 V03-0270-05 V01-0173-05	2SC2378(R, Q), 2SD767 2SA954(L, K), 2SA984K(E, F 2SD762, 2SD330 2SC945(R, Q), 2SD767 2SA850, 2SA777(Q, R)	
C44 (C45 (C46 (C46 (C46 (C46 (C46 (C46 (C46 (C46	C24-1410-71 C24-1710-51 C24-1422-71 C24-1410-71 C24-1210-71	ELECTRO 100UF 25WV ELECTRO 1UF 50WV ELECTRO 220UF 25WV ELECTRO 100UF 25WV ELECTRO 100UF 16WV					
C48	C91-0023-05	CERAMIC 0.01UF 250WV					
F2 F	F05-5022-05 F05-6021-05 F05-3022-05	FUSE (5A) FUSE (6A) FUSE (3A)					

PARTS LIST



- ① Symbol of new parts
- ② Parts list of Model NINE GX and KR-9000GX was included in this ma-

In column of parts list, 9GX means model NINE GX (U, M type), 9000GX does KR-9000GX (H type). Part list of TUNER, TONE, SPEAKER SELECT and DOLBY PCB ass'y is not written, refer to the MODEL 9GX service manual. (Parts No. B51-0538-00)

- 3 Reference No. in schematic diagram.
- Abbreviation of "ceramic capacitor".

All capacitors and resistors are listed using abbreviations.

- 3 Abbreviations
- Abbreviations of capacitors (Parts No. with initial letter "C"). ELECTRO .. Electrolytic capacitor LL-ELEC Low leak electrolytic capacitor NP-ELEC .. Non-pole electrolytic capacitor MICA Mica capacitor POLYSTY .. Polystyrene capacitor MYLAR Mylar capacitor CERAMIC . Ceramic capacitor TANTAL. Tantalum capacitor Metallized film capacitor Oil capacitor The unit "UF" is used in lieu of " μ F".
- * Abbreviations of resistors (Parts No. with initial letters "R"). Carbon composition resistor RD. Carbon film resistor FL-PROOF RD .. Flame-proof carbon film resistor Wire wound power resistor FL-PROOF RS. Flame-proof metal oxide film resistor RN Metal film resistor 2B Rated wattage 1/8W 2E. Rated wattage 1/4W 2H Rated wattage 1/2W ЗА Rated wattage 1W 3D Rated wattage 2W Rated wattage 3W 3G Rated wattage 4W 3H .. Rated wattage 5W All resistor values are indicated with the unit (Ω) omitted.

Abbreviations common to capacitors and resistors.

- ±0.25pF (Used for capacitors only) ±0.5pF (Used for capacitors only) ±2% ±5% +10% +80%, -20% (Used for capacitors only) + 100%, -0% (Used for capacitors only)
- Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

A product of

TRIO-KENWOOD CORPORATION

6-17, 3-chome, Aobadai, Meguro-ku, Tokyo 153, Japan

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Rudolf-Braas-Str. 20, 6056 Heusens TRIO-KENWOOD FRANCE S.A.

TRIO-KENWOOD SVENSKA AB

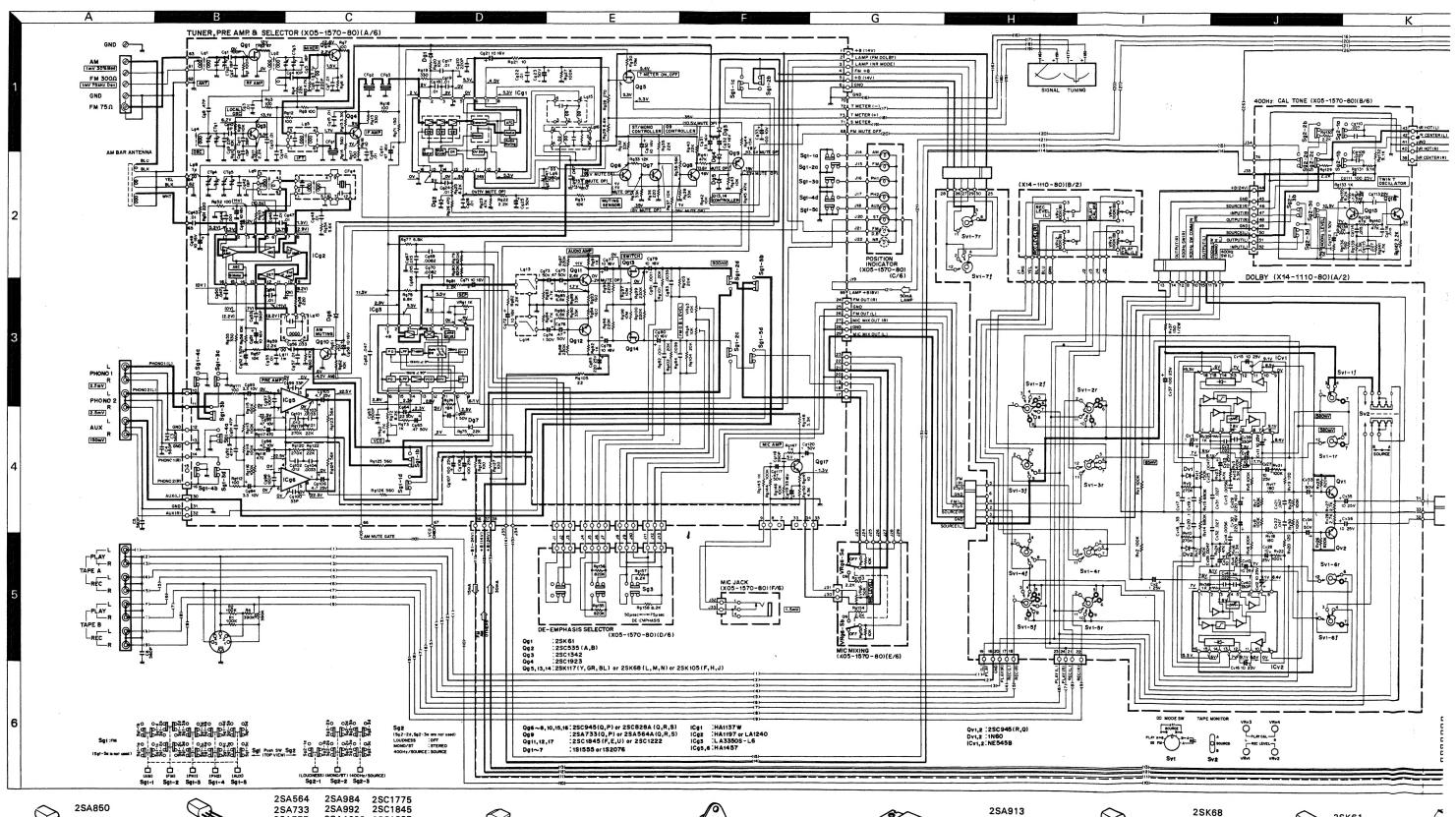
Kemistvagen 10A, S-183 21 Taby, Sweden TRIO-KENWOOD (AUSTRALIA) PTY. LTD.

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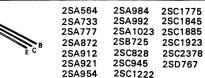








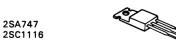














2SD330

2SD381

2SD762





2SK68A

2SK117





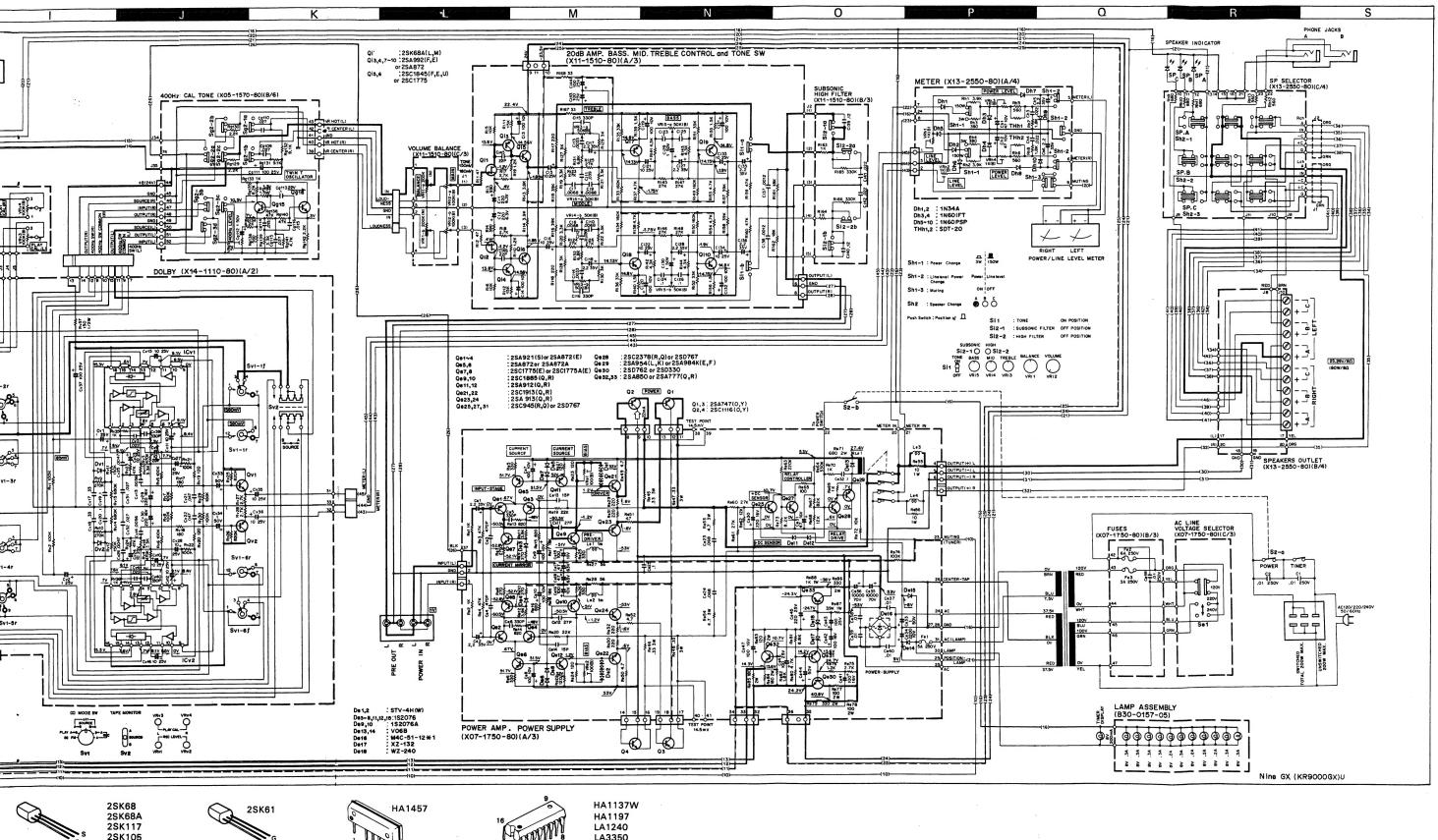
AM-FM STEREO RECEIVER

2SK68 2SK68A

2SK117

2SK61





HA1137W

HA1197

LA1240 LA3350 NE545B

HA1457

1:001

80 watt: Hz with

Both Chann Dynamic Pc Total Harms

Intermodur: (60 Hz : 7 k

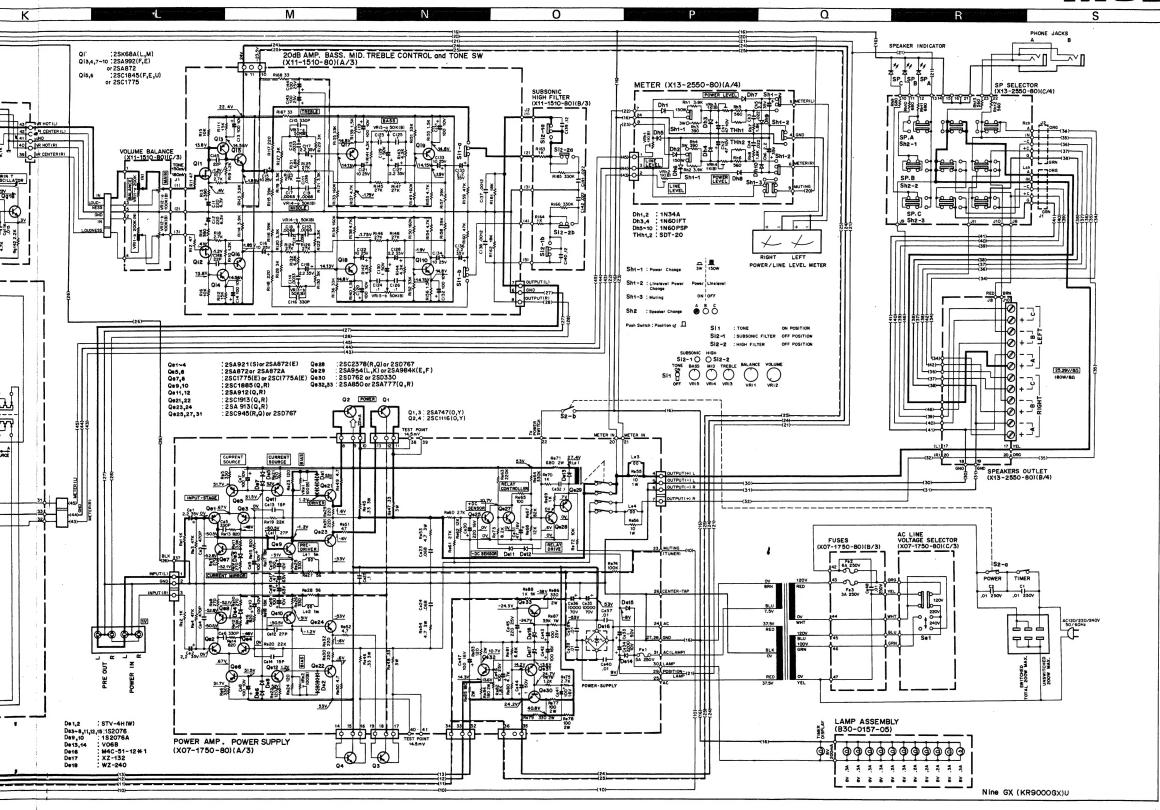
Pre Out

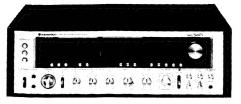
FM TUN
Usable Ser50 dB Qu's
Mono
Stereo
Signal to h
Mono
Stereo
Total HarTotal HarMono
Stereo
Total HarAlternate C
Spurious Ri
Image Res;
IF Respons
AM Suppre
65 dBf.
Stereo Sep

Sub Carrier Antenna In FM Frequer AM TUN Usable Sen Signal to N Image Reje Selectivity IF Rejection Total Harm

/ER

KR-9000GX)-MODEL NINE GX





POWER ÁMPLIFIER SECTION

Power Output	
80 watts per channel	minimum RMS, both
channels driven, at 8 of	
Hz with no more than	
distortion.	
Both Channels Driven Dynamic Power Output Total Harmonic Distortion	110 + 110W 4Ω at 1 kHz
Dynamic Power Output	280W 4Ω
Total Harmonic Distortion	0.03% at rated power into 812
	0.01% at 1/2 rated power into
Intermoduration Distortion	
(60 Hz : 7 kHz = 4 : 1)	0.01% at 1/2 rated power into
	80
Power Bandwidth	5 Hz to 100,000 Hz
Frequency Response	5 Hz to 100,000 Hz — 1.5 dB
Damping Factor	40 at 8 ohms
Input Sensitivity/Impedance	1.0V/50 kΩ
Speaker Impedence	
PRE AMPLIFIER SECTION	ON
Input Sensitivity/Impedance/Sig	nal to Noise Ratio (IHF A curve)
Phono 1 Phono 2	2.5 mV/50 kl/80 dB
AUX	2.5 mV/50 kΩ/80 dB
AUX Tape A. B Mic	150 mV/50 ki2/110 dB
Mic	1.5 mV/10 kil/70 dB
Maximum Input Level for Phono	230 mV (RMS), T H D. 0.03%
f	at 1,000 Hz
Frequency Response Phono	RIAA standard 30 Hz to 20 kHz
· · · · · · · · · · · · · · · · · · ·	±0.3 dB
AUX and Tape	. 10 Hz to 40.000 Hz - 1.0 dB
Tone Control	
Bass Mid	±12 dB at 50 Hz
Treble	± 12 dB at 800Hz
Loudness Control (- 30 dB Vol.).	+ 10 dB at 100 Hz
Subsonic Filter	- 15 dB at 18 Hz
High Filter Output Level/Impedance	- 6 dB at 10 kHz
Tape REC (Pin)	A . 150 mV/100Ω
	B . 150 mV/100Ω
(DIN)	A: 30 mV/80 kΩ
Pre Out	B :120 mV/80 kΩ
Pre Out	1.0V/1 KB
FM TUNER SECTION Usable Sensitivity	
50 dB Quieting Sensitivity	10.3 dBf (1.8 µV)
Mono	14.7 dBf (3.0 µV)
Mono	. 37.2 dBf (40 µV)
Signal to Noise Ratio at 65 dBf	
Mono	80 dB . 74 dB
Total Harmonic Distortion at 65 c	
Mano	0.1% at 1 kHz
Stereo	. 0.15% at 1 kHz
Frequency Response	30 Hz to 15.000 Hz + 0.5, 1.0 dB
Capture Ratio	
Alternate Channel Selectivity	75 dB
Spurious Response Ratio	. 85 dB
Image Response Ratio	. 60 dB
IF Response Ratio	/008
65 dBf	. 65 dB
Stereo Separation	. 48 dB at 1.000 Hz
	35 dB at 50 Hz to 15,000 Hz
Sub Carrier Product Rejection	3000 balanced and 350
padanta	unbalanced and 7511
FM Frequency Range	88 MHz to 108 MHz
AM TUNER SECTION	
Usable Sensitivity	20 µV
Signal to Noise Ratio	. 50 dB
Image Rejection	. 55 dB

.50/60 Hz. 110-120/ 220-240V 550 watts at full power Switched 2. Unswitched 624 mm (24-9/16*) 206 mm (8-1/8*) 460 mm (18-1/8*) 138 kg (43 5 lb) 243 kg (53 6 lb) NOTE: ---Kenwood follows a policy of continuous advancements in develop-ment. For this reason specifications may be changed without notice

GENERAL



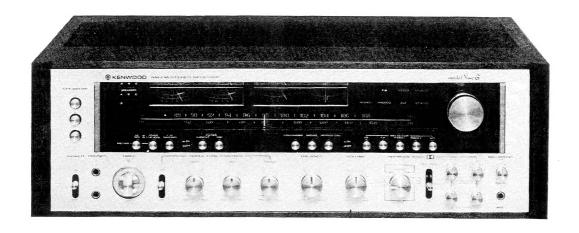


HA1137W HA1197 LA1240 LA3350 NE545B



SERVICE MANUAL

MODEL NINE G (KR-9000G)



AM-FM STEREO RECEIVER

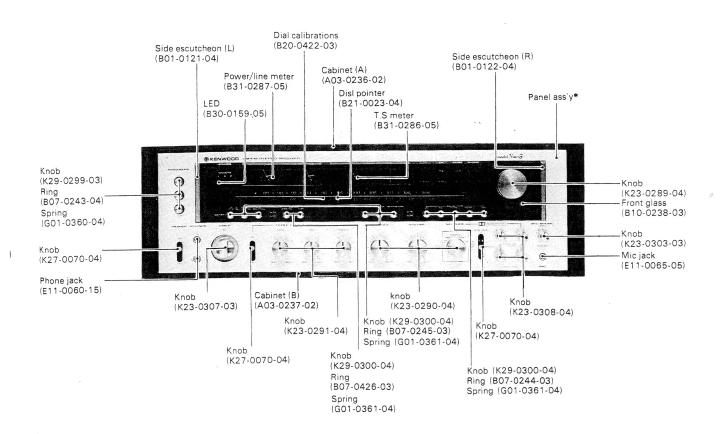


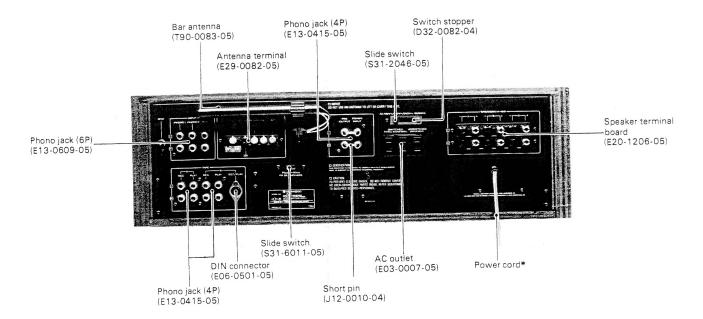
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BLOCK DIAGRAM	6
LEVEL DIAGRAM	6
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PC BOARD	
SCHEMATIC DIAGRAM	
SPECIFICATIONS	11
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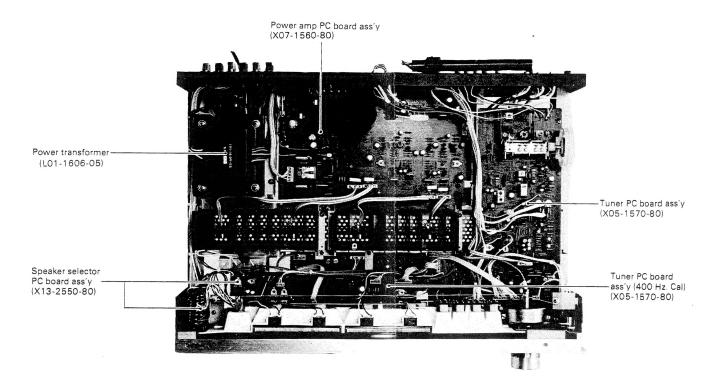


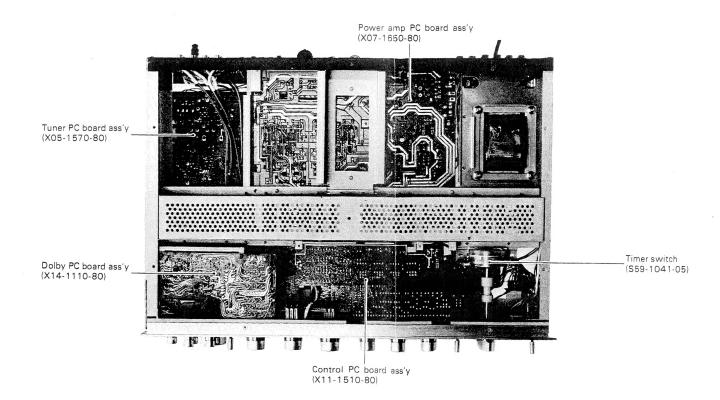
EXTERNAL VIEW





INTERNAL VIEW

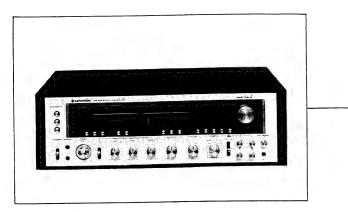




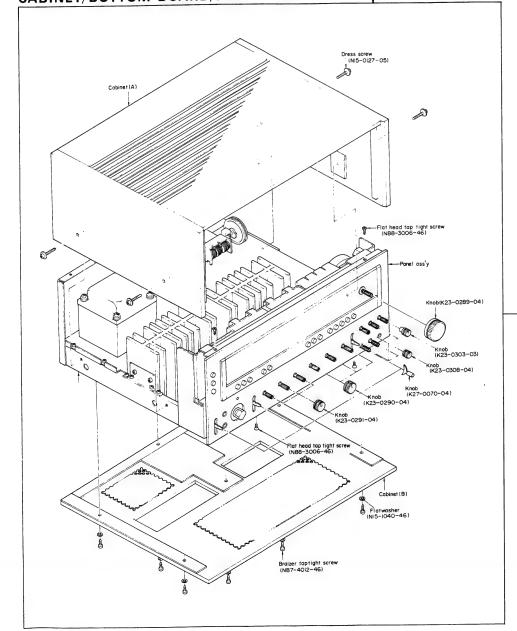


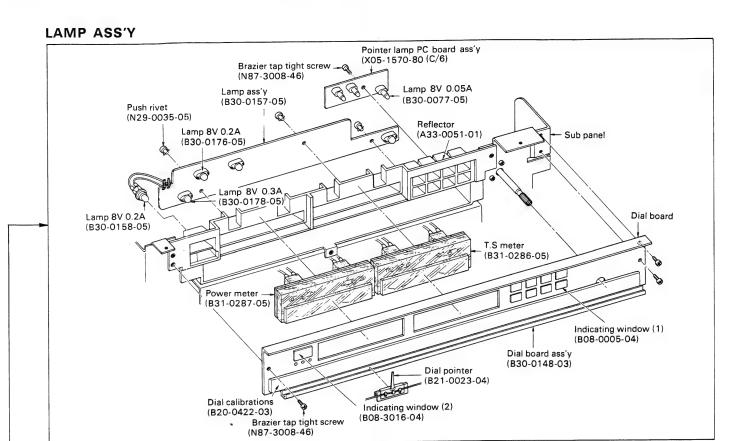
MODEL NINE G MODEL NINE G

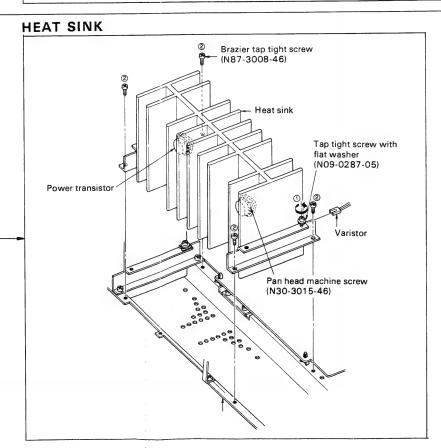
DISASSEMBLY FOR REPAIR

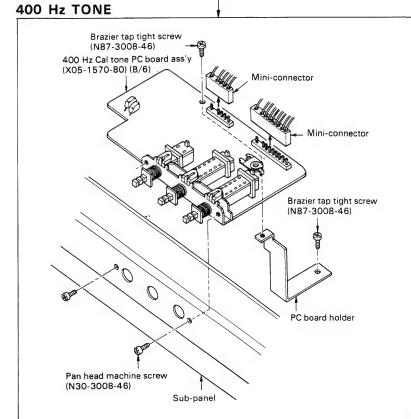


CABINET/BOTTOM BOARD/PANEL ASS'Y



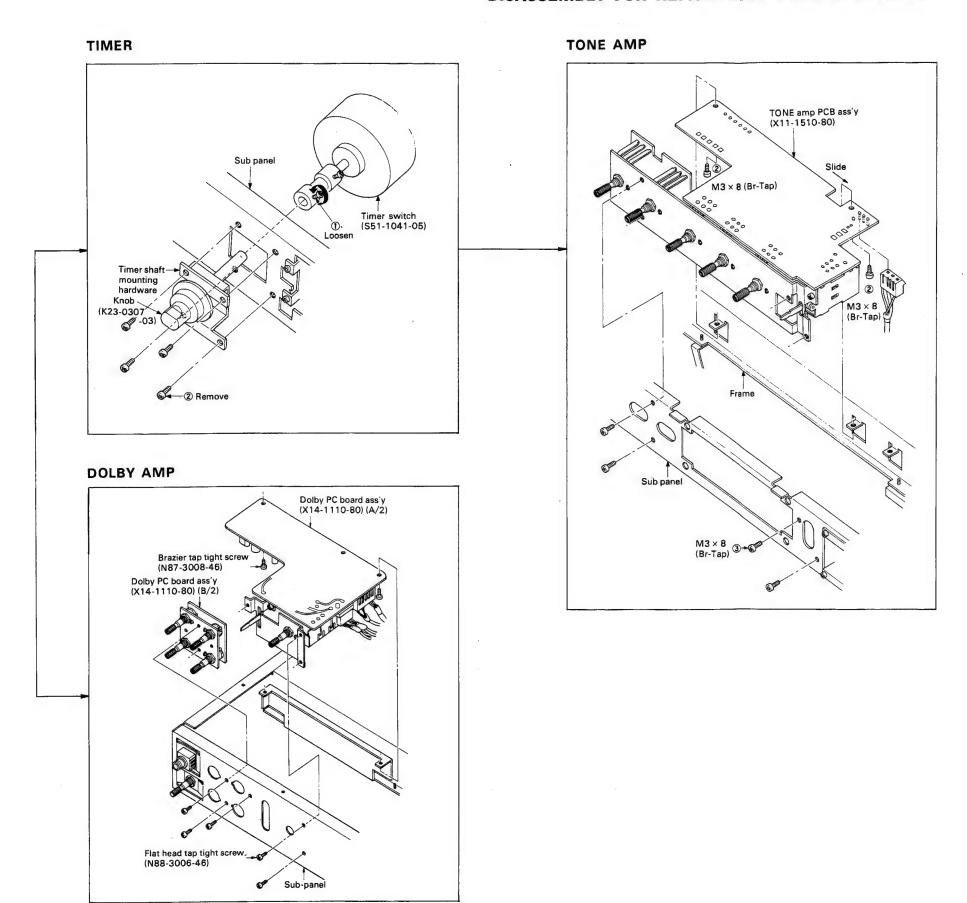






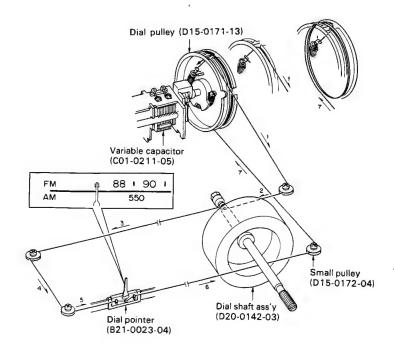
MODEL NINE G

DISASSEMBLY FOR REPAIR/DIAL CORD STRINGING



DIAL CORD STRINGING

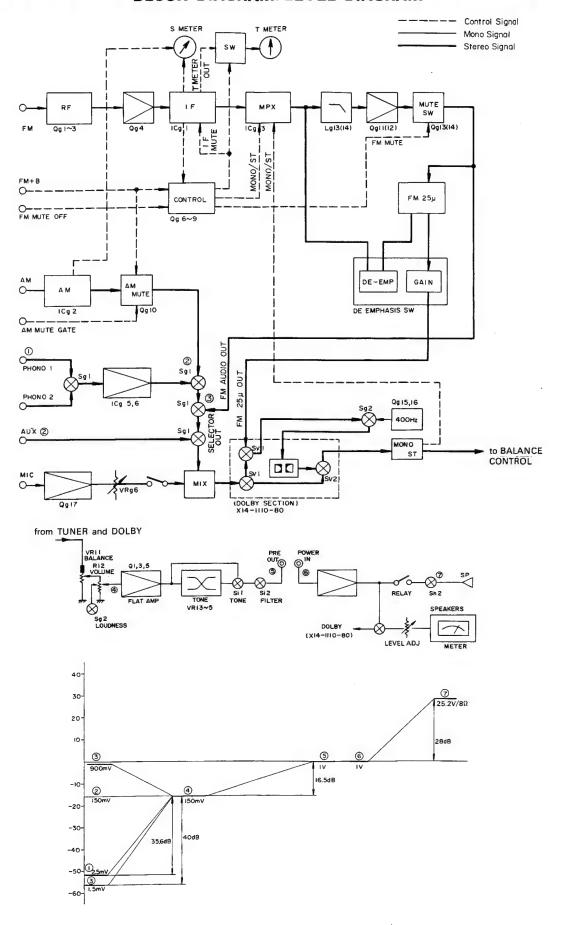
- 1. Fully open the variable capacitor.
- 2. Set the dial pulley as illustrated, and fix it with a screw.
- 3. Tie the end of the dial cord and the dial spring, giving a margin of about 10 cm.
- 4. Hook the spring on the boss.
- 5. Dress the dial cord in the direction of "1" to "2", and wind it 2 turns around the dial shaft clockwise.
- 6. Dress the dial cord in the direction of "3" through "7", and wind it one and half turns around the dial pulley starting from its lower side.
- 7. Tie the dial cord rigidly with the margin cord (about 10 cm, described in 3, above) without permitting any slack.
- 8. Cut off the unnecessary part of the cord, and release the dial spring from the boss.
- 9. Fully close the variable capacitor.
- Mount the dial pointer in position as illustrated. This setting should be checked by receiving a suitable broadcast station actually.



MODEL NINE G

MODEL NINE G MODEL NINE G

BLOCK DIAGRAM/LEVEL DIAGRAM



ADJUSTMENT

NO.	ALIGN-	TESTE	QUIPMENTS	RECEIVER	OUTPUT	ADJUSTMENT	REMARKS
WO.	MENT	CONNECTION	SETTING	SETTING	INDICATOR	POINTS	REWARKS
M S	SECTION						
1	IFT	0	95 MHz 60 dB (ANT INPUT) 1 kHz (Mod) 75 kHz (Dev)	FM 95 MHz MODE: MONO	(3)	Lg5 `	Maximum output
2	DISCRI	_	_	FM MODE: MONO Interstation noise	T meter	Lg7 (primary)	Meter indication in the center
3		۵	95 MHz 60 dB (ANT INPUT) 1 kHz (Mod) 75 kHz (Dev)	FM 95 MHz MODE: MONO	8	Lg7 (secondary)	Minim distortion
4	OUTPUT	ditto	ditto	ditto	ditto	_	Confirm that output voltage is 900 mV
5	TRACKING	ditto	90 MHz 1 kHz (Mod) 75 kHz (Dev)	FM 90 MHz	ditto	Lg4, 1, 2	Maximum output
6		ditto	106 MHz 1 kHz (Mod) 75 kHz (Dev)	FM 106 MHz	ditto	CTg1, 2, 3	ditto
7	vco	۵	95 MHz 60 dB (ANT INPUT) 0 (Dev)	FM 95 MHz MODE: STEREO	•	VRg2	Frequency counter indication is 19 kHz ± 50 Hz
8	SEPARATION	•	FM-MPX: SELECTOR→L or R 1 kHz (Mod) PILOT (6.75 kHz)	ditto	R output (SELECTOR→L)	VRg1	Minimum output.
			FM-SG: 95 MHz 60 dB (ANT INPUT) 68.25 kHz (Dev)		L output (SELECTOR→R)		Adjust VRg1 so that the difference between R output and L output becomes minimum
9	DISTORTION	A	ditto	ditto	₿	Lg5	Minimum distortion
10	DOLBY FM	Ø	95 MHz 60 dB (ANT INPUT) 1 kHz (Mod) 37.5 kHz (Dev)	FM 95 MHz Sg2 – 3: OFF Sv1: X FM	(3)	VRg3, 4	Output is 580 mV
11	400 Hz OSC LEVEL		_	Sg2 - 3: ON Sv1: PLAY A→B Vrv1~4: MAX	(3)	Vrg5	ditto
M	SECTION						
12	TRACKING	9	600 kHz 400Hz, 30% (Mod)	AM 600 kHz	3	Lg9 Bar antenna	Maximum output
13		ditto	1400 kHz 400Hz, 30% (Mod)	AM 1400 kHz	3	CTg4, 5	ditto
AUD	IO SECTION						
14	BIAS CURRENT	-	_	Volume to minimum position	0	VRe1, 2	26.5 mV
MET	ER SECTION		,		1		
15	POWER	•	1 kHz	AUX Set the volume so that output is 2.8V (RMS) Sh 1 – 1: 3W Sh1 – 2: POWER	POWER/LINE meter		Meter indicates 1W
16	LINE		-	Sg2 – 3: ON Sv1: PLAY A→B Vrv1 ~4: MAX	POWER/LINE meter		Meter indicates cal.



ADJUSTMENT

TEST EQUIPMENT and its SPECIFICATIONS

STANDARD SIGNAL GENERATOR (RF-SG)

Ranges:

90 MHz~108 MHz (FM)

500 kHz ~ 1600 kHz (AM)

Modulation

frequency:

1 kHz, 400 Hz or external input

(input level 2V or less) $0 \sim 75 \text{ kHz (FM)}$

Deviation:

 $0 \sim 30\% (AM)$ Modulation:

Output:

100 mV or more

0.5% or less Distortion:

SOLID STATE VOLT METER (SSVM) Ranges:

0 3 mV ~ 300V (full scale)

Frequency

5 Hz ~ 500 kHz response:

Impedance:

 $1 {
m M}\Omega$ or more

OSCILLOSCOPE (SCOPE)

DC \sim 10 MHz Ranges:

Sensitivity:

20 mV/cm $1 M\Omega$ or more

Impedance:

DISTORTION METER

O 1% (full scale) Ranges: 100 mV or more

Sensitivity:

FREQUENCY COUNTER (COUNTER)

Frequency

10 Hz~1 MHz response: 50 mV or more

Sensitivity:

 $1 \mathrm{M}\Omega$ or more

Impedance:

AUDIO SIGNAL GENERATOR (AG)

Ranges:

5 Hz∼500 kHz

Waveform:

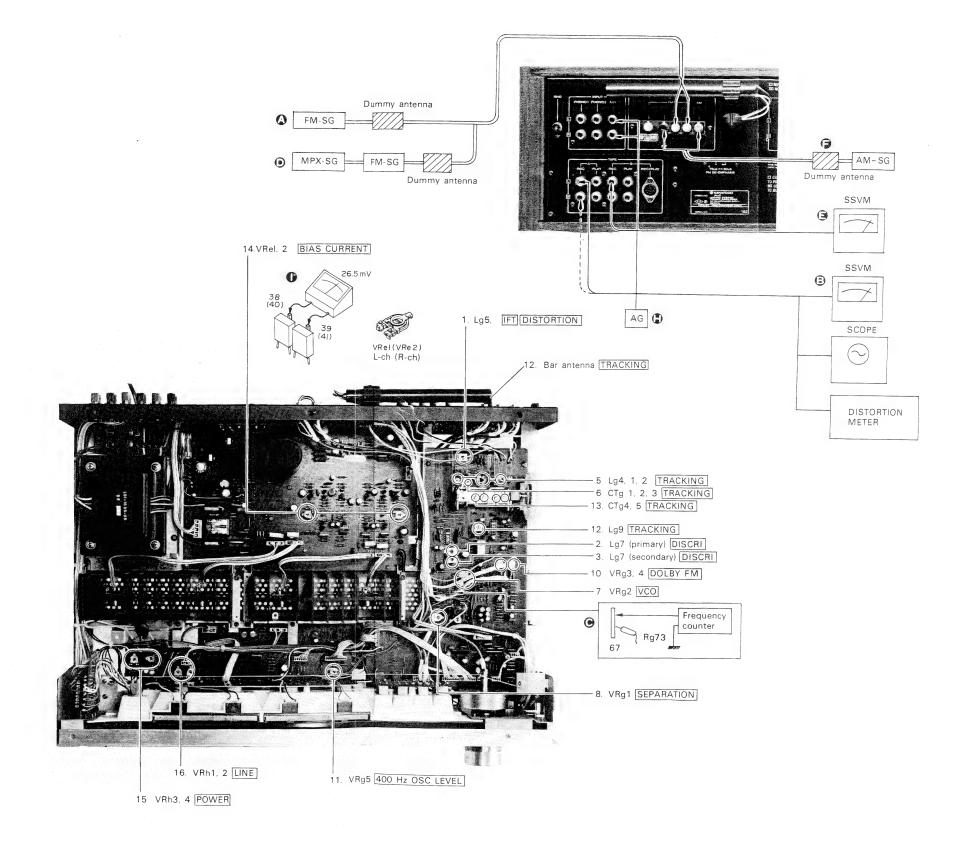
Sine wave 10V r.m s.

Output: Distortion:

0.3% or less

NOTES FOR ADJUSTMENTS

*Use moderate instrument outputs at all times. *The output level of RF-SG means ANT input level. *0 dB = 1 μ V

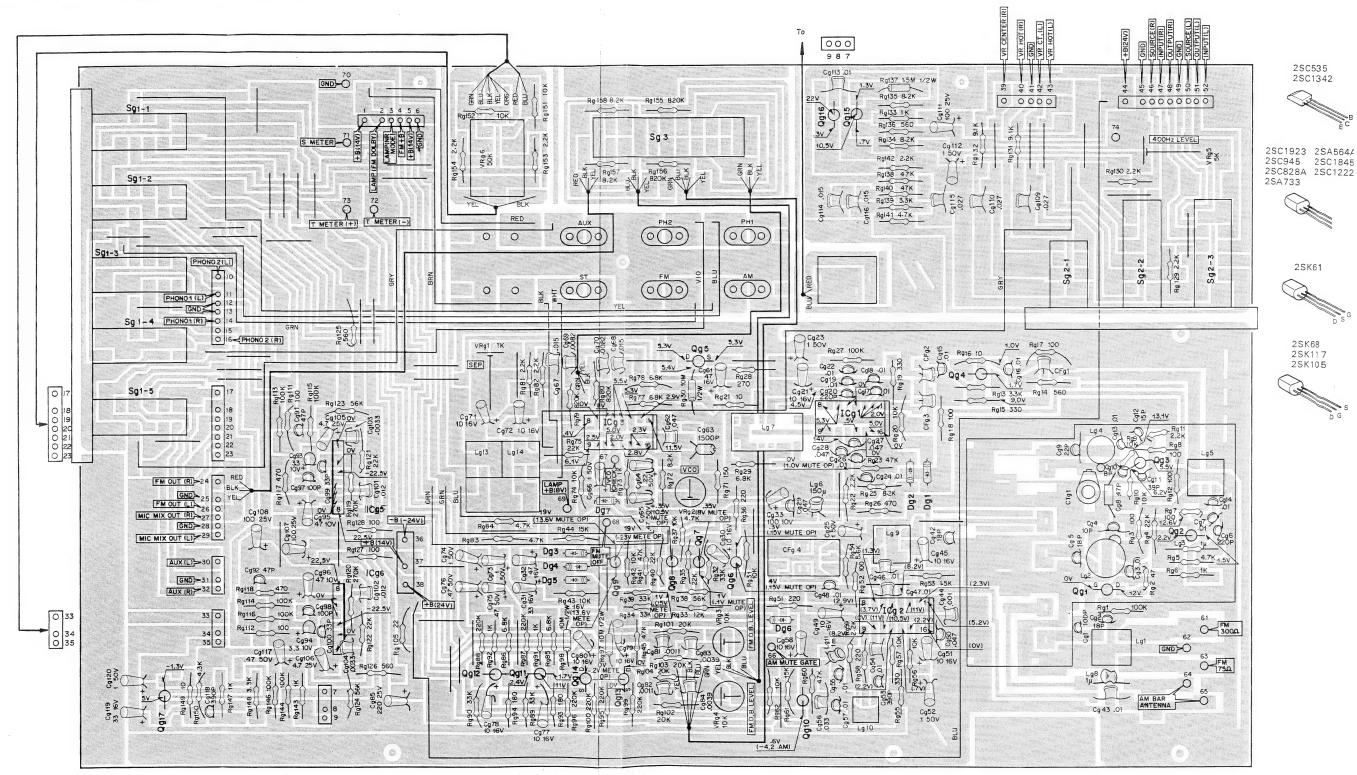




MODEL NINE & MODEL NINE &

PC BOARD

TUNER · PREAMP · SELECTOR (X05-1570-80) COMPONENT SIDE VIEW

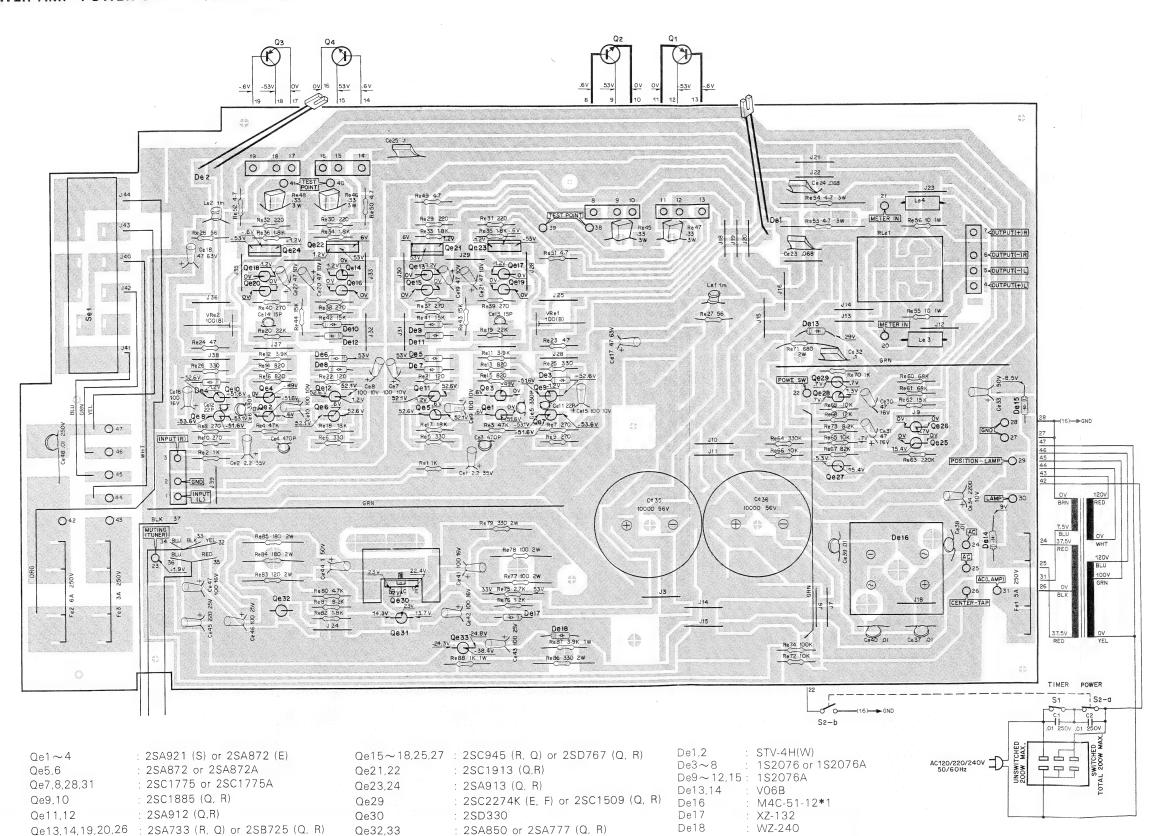


Qg1: 2SK61, Qg2: 2SC535 (A, B), Qg3: 2SC1342, Qg4: 2SC1923, Qg5, 13, 14: 2SK117 (Y, GR, BL) or 2SK68 (L, M, N) or 2SK105 (F, H, J), Qg6 \sim 8, 10, 15, 16: 2SC945 (Q, P) or 2SC828A (Q, R), Qg9: 2SA733 (Q, P) or 2SA564A (Q, R, S), Qg11, 12, 17: 2SC1845 (F, E, U) or 2SC1222, Dg1 \sim 7: 1S1555 or 1S2076, ICg1: HA1137W, ICg2: HA1197 or LA1240, ICg3: LA3350S-L6, ICg5, 6: HA1457

WINSTALL

PC BOARD

POWER AMP POWER SUPPLY (X07-1650-80)



2SA921 2SB725 2SA872 2SC1775 2SA872A 2SC1775A 2SA912 2SC1885 2SA773 2SC2945 2SA777 2SC2274K 2SC1509 2SD767



2SA913 2SD330 2SC1913



2SA850

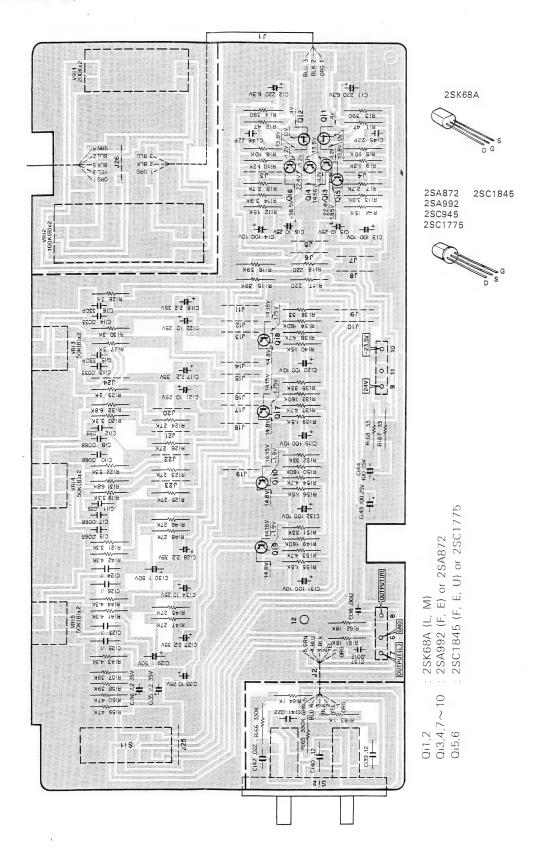




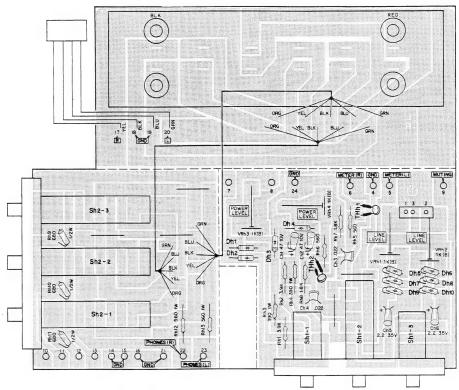
MODEL NINE & MODEL NINE &

PC BOARD

CONTROL (X11-1510-80)

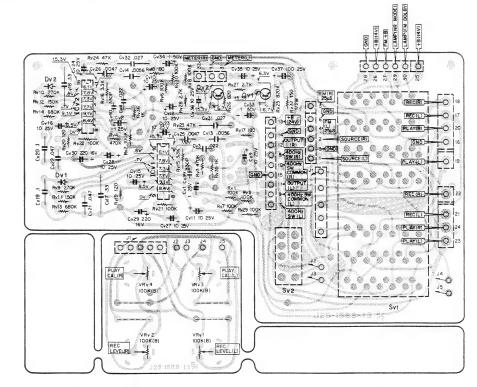


SPEAKER SELECTOR (X13-2550-80)



Dh1, 2: 1N34A, Dh3, 4: 1N60IFT, Dh5 ~ 10: 1N60, THh1, 2: SDT-20

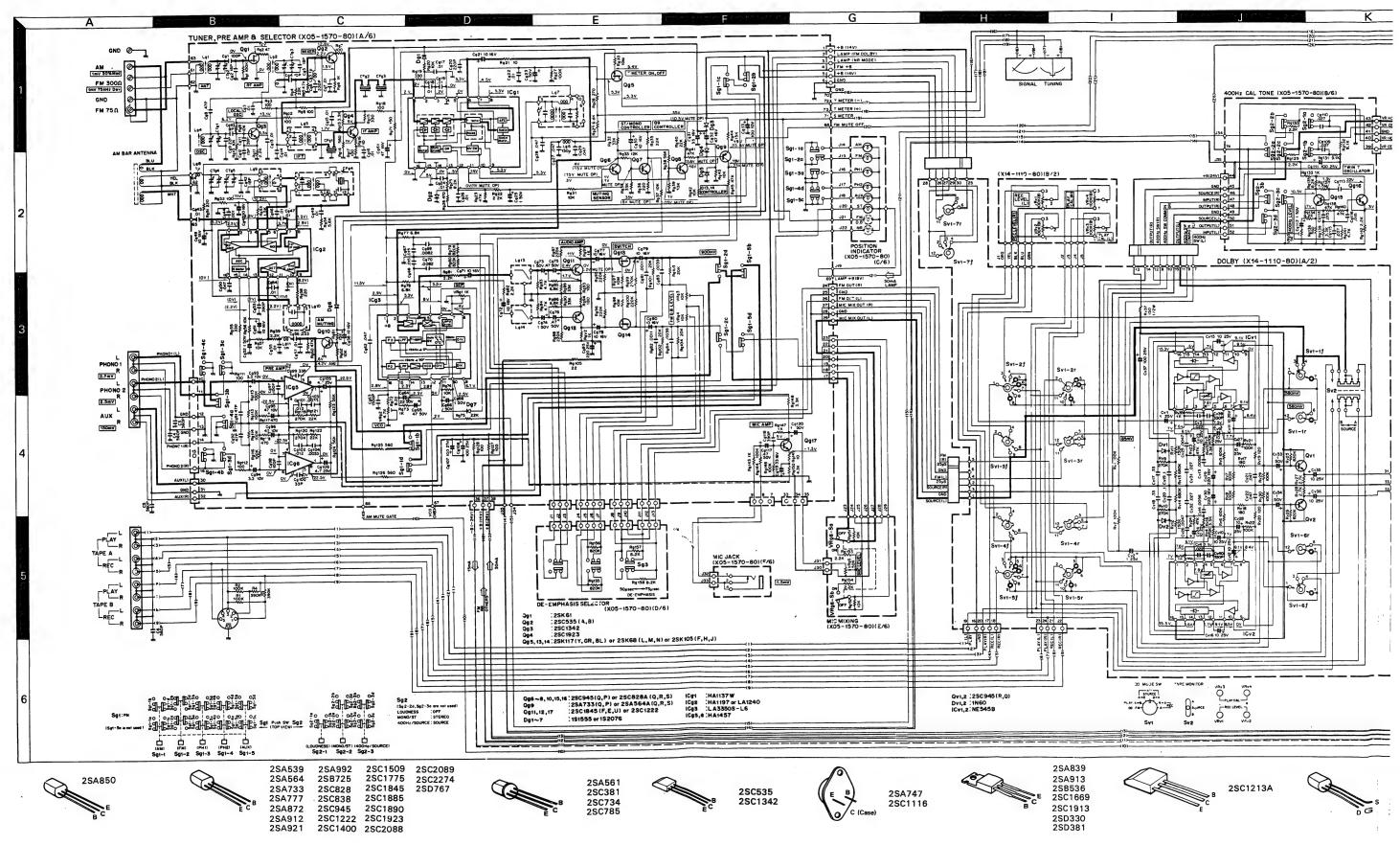
DOLBY (X14-1110-80)



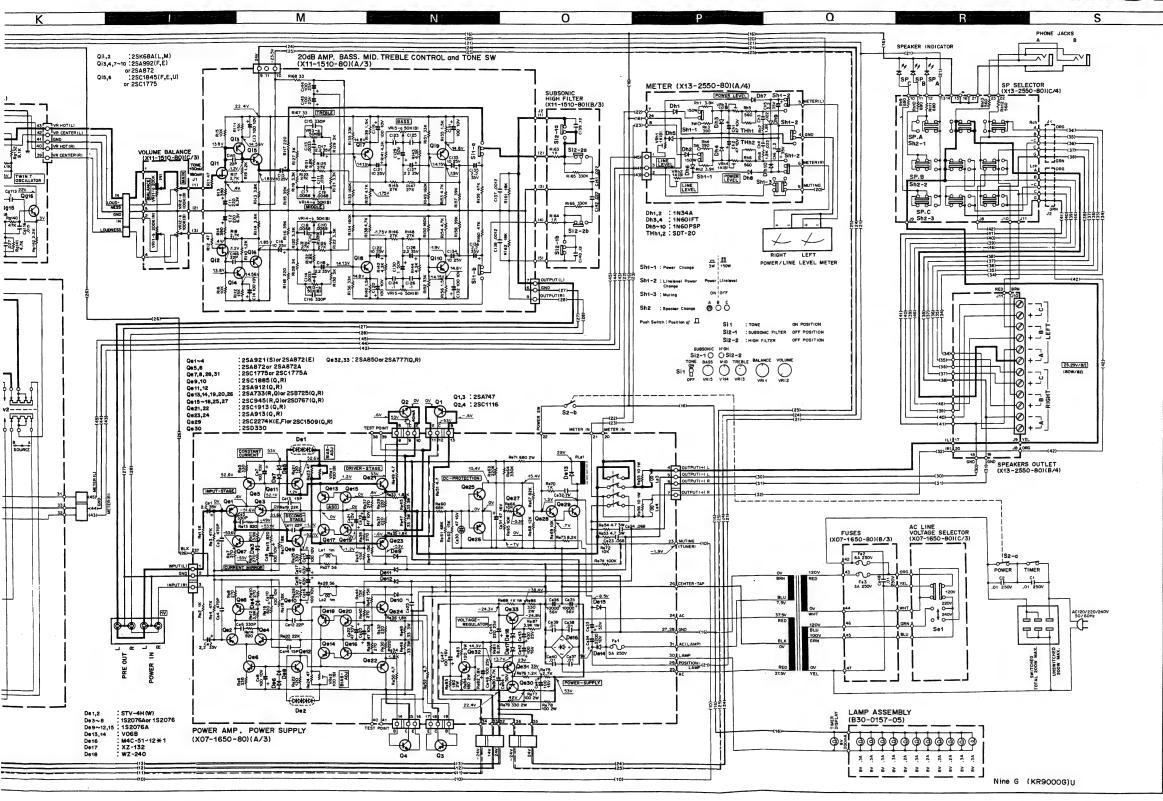
Qv1, 2: 2SC945 (R, Q), Dv1, 2: 1N60, ICv1, 2: NE545B







-(KR-9000G)-MODEL NINE G





POWER AMPLIFIER SECTION

Power Output

80 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 to 20,000 Hz with no more than 0.03% total harmonic

110 + 110W 4Ω at 1 kHz 280W 4Ω 0 03% at rated power into 8Ω 0 01% at 1/2 rated power into 0 03% at rated power into 80 0 01% at 1/2 rated power into (60 Hz : 7 kHz = 4 : 1)

5 Hz to 100,000 Hz Frequency Response Signal to Noise Ratio Damping Factor Input Sensitivity/Impe Speaker Impedance 5 Hz to 100.000 Hz = 1 5 dB 115 dB (short circuited) 40 at 8 ohms 1 0V/50 kΩ Accept 4½ to 16Ω

PRE AMPLIFIER SECTION

I to Noise Ratio (IHF A curve nai to Noise Ratio (IHF A curve 2 5 mV/50 kil/80 dB 2 5 mV/50 kil/80 dB 150 mV/50 kil/110 dB 150 mV/50 kil/110 dB 15 mV/10 kil/70 dB 230 mV (RMS), T H D 0 03% at 1 000 Hz

RIAA standard 30 Hz to 20 kH $\pm 0.3~\mathrm{dB}$ 10 Hz to 40.000 Hz - 1.0 dB

±12 dB at 50 Hz ±12 dB at 800Hz ±12 dB at 15 kHz + 10 dB at 100 Hz + 15 dB at 18 Hz - 6 dB at 10 kHz

Pre Out

FM TUNER SECTION 10 3 dBf (1 8 µV) 50 dB Quieting Sensitivity 14 7 dBf (3 0 µV) 37 2 dBf (40 µV

0 1% at 1 kHz 0 15% at 1 kHz 0 15% at 1 kHz 30 Hz to 15 000 Hz + 0 5 -- 1 0 dB 1 0 dB 75 dB 85 dB 60 dB 75 dB

65 dB 48 dB at 1 000 Hz

35 dB at 50 Hz to 15 000 Hz unbalanced 88 MHz to 108 MHz

FM Frequency Rang AM TUNER SECTION

Usable Sensitivity
Signal to Noise Ratio
Image Rejection
Selectivity
IF Rejection
Total Harmonic Distort

GENERAL 50/60 Hz 110-120/ 220-240V 550 watts at full power 550 watts at full power 624 mm (24-9/16*) 206 mm (8-1/8*) 460 mm (18-1/8*) 198 kg (43 5 lb) 24 3 kg (53 6 lb) Power Consumption A C Outlet Dimensions W

MODEL NINE G MODEL NINE G

PARTS LIST

☆: New parts

Carbon: Carbon film resistor RC: Carbon composition resistor

RW: Wire wound power resistor

RN: Metal film resistor

RS: Metal oxide film resistor

The parts No. of the resistor and the capacitor is changed into computer code.

U: PX, M₁: Other area, M₂: KR-9000

TOTAL

Ref. No.	Parts No.	Description	Re- marks
_	A03-0236-02	Cabinet (A)	
_	A03-0237-02	Cabinet (B)	
_	A20-1318-03	Panel ass'y U,M ₁	☆
_	A20-1319-03	Panel ass'y M ₂	☆
- - - - - -	B01-0121-04	Escutcheon (L)	
_	B01-0122-04	Escutcheon (R)	
_	B01-0123-03	Escutcheon	☆
_	B07-0230-14	Escutcheon (Shaft)	
-	B07-0234-03	Lever escutcheon (TONE, TAPE)	
_	B07-0235-04	Lever escutcheon (POWER)	
_	B07-0243-04	Pushbutton switch ring (SPEAKER)	
_	B07-0244-03	Pushbutton switch ring (SELECTOR)	
_	B07-0245-03	Pushbutton switch ring (LOUDNESS/N	/ETER)
_	B07-0246-03	Pushbutton switch ring	☆
		(FILTER/SUBSONIC)	
_	B08-0005-04	Indicator (Selector)	
_	B08-2017-14	Indicator (TIMER)	
-	B08-3016-04	Indicator (Speaker)	
- ,	B10-0238-03	Frontglass	
_	B20-0422-03	Dial calibrations	
_	B21-0023-04	Dial pointer	
	B30-0077-05	Pilot lamp × 2	
_	B30-0157-05	Pilot lamp ass'y	
_	B30-0158-05	Pilot lamp (8V, 200mA)	
-	B30-0159-05	LED × 3	
_	B31-0286-05	Meter (Tuning, Signal)	
_	B31-0287-05	Meter (POWER)	
_	B42-0009-04	Passed sticker	
-	B46-0062-20	Warranty card U.M ₂	
_	B46-0063-00	Warranty card U	
_	B50-1768-00	Instruction manual UM ₁	☆
_	B50-1770-00	Instruction manual M ₂	☆
-	B59-0018-00	KENWOOD service stations' list U	
C1.2	C91-0023-05	Ceramic 0.01μF AC 250 WV	
			- 1
C3~6	C52-1756-16	Ceramic 560pF ±10%	
_	D15-0171-13	Dial pulley	Į
_	D15-0172-04	Pulley × 4	
_	D20-0142-03	Dial shaft	
_	D21-0450-03	Timer shaft	
_	D22-0033-04	Coupler	ı
_	D32-0082-04	Switch stopper (Power voltage)	1
_	E02-0004-05	Transistor socket × 4	ı
_	E03-0007-05	AC outlet	- 1
_	E06-0501-05	DIN connector	1

			
Ref. No.	Parts No.	Description	Re- marks
_	E11-0060-15	Phone jack × 2	
_	E13-0415-05	Phono jack (4P) × 3	1
_	E13-0609-05	Phono jack (6P)	
_	E14-0107-05	Short phono plug × 2	
	E29-0082-05	Antenna terminal board	
	E30-0545-05	Power cord U,M ₁	
_	E30-0545-05		
_	E30-0560-05	Power cord M ₂	
_	G01-0045-24	Dial spring	
_	G01-0360-04	Pushbutton spring × 3 (SPEAKER)	
_	G01-0361-04	Pushbutton spring × 13	
-	H01-1829-04	Carton box UM ₁	☆
_	H01-1830-04	Carton box M ₂	☆
_	H10-1519-02	Polystyrene foamed fixture × 2	
_	H20-0443-04	Polyethylene cover M ₁	
_	H20-0449-04	Polyethylene cover U.M ₂	
-	H25-0078-04	Polyethylene bag	
	102 0040 44	Face V. A	
-	J02-0049-14	Foot × 4	
_	J12-0010-04	Short pin × 2	
-	J19-0524-14	LED holder	
-	J41-0033-05	Cord bushing M ₂	
-	J41-0034-05	Cord bushing U,M ₁	
_	K23-0289-04	Knob (Tuning)	
_	K23-0290-04	Knob (VOL., Bal., N.R. mode) × 3	
_	K23-0291-04	Knob (TONE) × 3	
_	K23-0303-03	Knob (MIC MIXING)	
	K23-0303-03	Knob (TIMER)	
- - -			
_	K23-0308-04	Knob (DOLBY CAL.) × 4	
_	K27-0070-04	Knob (LEVER) × 3	
_	K29-0299-04	Knob (SPEAKER) × 3	
-	K29-0300-04	Knob × 11	
-	L01-1606-05	Power transformer	☆
_	N08-0127-05	Dress screw × 4	
_	N08-0128-35	GND screw	
1,2	R43-6210-45	Carbon 100kΩ ±5% 1/4W×2	
3,4	R43-6239-45	Carbon 390k Ω ±5% 1/4W×2	
	5255 40	200 1/311 / 6	
1	S33-4014-05	Lever switch (POWER)	
2	S59-1041-05	Timer switch	
-	T90-0083-05	Bar antenna	
-	T90-0202-05	FM indoor antenna	
21,3	V01-0747-00	Transistor 2SA747	
22,4	V03-1116-00	Transistor 2SC1116	
	VOE 1570 80	Tuner BC hourd are'r	
_	X05-1570-80 X07-1650-80	Tuner PC board ass'y	_ ا
_		Power amp PC board ass'y	☆
	X11-1510-80	Tone amp PC board ass'y	☆
-	X13-2550-80	Speaker selector PC board ass'y	
-	X14-1110-80	Dolby PC board ass'y	
		-	
•		, .	ı

TUNER (X05-1570-80)

Ref. No.	Parts No.		Description	on	Re- marks
_	B30-0077-05	Pilot lamp (8V, 50mA))×6	
	004 0044 05	Mariable an			
_	C01-0211-05	Variable ca			
-	C05-0055-05	Ceramic trii		±10%	
Cg1	C71-1710-16		100pF		
Cg2	C71-1718-06	Ceramic	18pF	±10%	ļ
Cg3	C55-1710-38	Ceramic	0.01μF	+80%-20%	
Cg4	C71-1710-02	Ceramic	10pF	±0.5pF	
Cg5	C71-1718-06	Ceramic	18pF	±10%	
Cg6	C71-1722-16	Ceramic	220pF	±10%	
Cg7	C5.5-1710-38	Ceramic	0.01μF	+80%-20%	
Cg8	C91-0037-05	Low capaci			
Cg9	C59-1722-05	Ceramic	22pF	±5%	
Cg10	C66-1708-02	Ceramic	8pF	±5%	
Cg11	C63-1739-06	Ceramic	39pF	±10%	
Cg12	C63-1715-06	Ceramic	15pF	.±10%	
Cg13~19	C55-1710-38	Ceramic	0.01μF	+80%-20%	
Cg20	C71-1722-16	Ceramic	220pF	±10%	
Cg21	C24-1210-61	Electrolytic	10μF	16WV	
Cg22	C55-1710-38	Ceramic	0.01µF	+80%-20%	
Cg23	C24-1710-51	Electrolytic	1μF	50WV	
Cg24	C55-1710-38	Ceramic	0.01μF	+80%-20%	
Cg25	C24-1710-51	Electrolytic	1μF	50WV	
Cg26	C55-1710-38	Ceramic	.0.01μF	+80%-20%	
Cg27∼29	C55-1747-38	Ceramic	0.047µF	+80%-20%	
Cg30	C24-1210-61	Electrolytic	•	16WV	
Cg31	C24-1233-61	Electrolytic	•	16WV	
_	C24-1233-01	Electrolytic		16WV	
Cg32	C24-1247-01	Electrolytic		10WV	
Cg33			•		
:g42	C70-1718-06	Ceramic	18pF	±10%	
Cg43	C55-1710-38	Ceramic	0.01μF	+80%-20%	
Cg44	C46-1710-27	Mylar	0.001μF	±20%	
Cg45	C24-1210-61	Electrolytic		16WV	
Cg46,47	C46-1710-37	Mylar	$0.01 \mu F$	±20%	
Cg48	C55-1710-38	Ceramic	$0.01 \mu F$	+80%-20%	
Cg49	C24-1210-61	Electrolytic	10μF	16WV	
Cg50	C55-1747-38	Ceramic	$0.047 \mu F$	+80%-20%	
Cg51	C24-1210-61	Electrolytic	10μF	16WV	
Cg52	C24-1710-51	Electrolytic	1μF	50WV	
Cg53	C52-1739-16	Ceramic	390pF	±10%	
Cg54	C46-1710-37	Mylar	$0.01 \mu F$	±20%	
g55	C55-1710-38	Ceramic	0.01µF	+80%-20%	
g56	C46-1733-37	Mylar	$0.033 \mu F$	±20%	
g57	C55-1710-38	Ceramic	0.01µF	+80%-20%	
g58	C24-1210-61	Electrolytic	10μF	16WV	
g61	C24-1247-61	Electrolytic	-	16WV	
g62	C46-1747-37	Mylar	0.047µF	±20%	
g63	C48-1715-25	Mylar	0.0015μF	1	
g64	C25-1722-47	Electrolytic	-	50WV	
g65	C25-1747-47	Electrolytic		50WV	
g66	C24-1710-51	Electrolytic		50WV	
g67,68	C46-1715-35	Mylar	0.015μF	1	
g69,70	C46-1719-35	Mylar	0.015μF 0.0082μF	1	
g71,72	C24-1210-61	Electrolytic		16WV	
g71.72 g73.74	C24-1710-51	Electrolytic			
-	1		•	50WV	
g75,76	C25-1747-47	Electrolytic		50WV	
g77∼80	C24-1210-61	Electrolytic		16WV	
g81,82	C46-1711-25	Mylar	0.0011 μF		
g83,84	C46-1739-25	Mylar	0.0039μF		
:g85	C24-1422-71	Electrolytic		25WV	
g91,92	C71-1747-06	Ceramic	47pF	±10%	
g93,94	C81-1033-57	Tantalum	3.3μF	10WV	ļ
;g95,96	C24-1047-61	Electrolytic	-	10WV	
Ca97.98	C71-1710-16	Ceramic	100-5	+10%	

Cg97.98 C71-1710-16 Cg99.100 C71-1733-06

Ceramic 100pF ±10%

Ceramic 33pF ±10%

PARTS LIST

	Ref. No.	Parts No.		Descrip	tion		Re- marks
	Cg101,102	C46-1712-35	Mylar	0.012μ	E +50	<u> </u>	1
	Cg103,104	C46-1733-25	Mylar	0.0033			
	Cg105,104	C25-1447-57	Electrolytic		250		
	Cg107,108	C24-1410-71	Electrolytic			vv ·	
	Cg109,110	C46-1727-35	Mylar	0.027μΙ			
	Cg111	C24-1410-71	Electrolytic		25V		
	Cg112	C24-1710-51	Electrolytic		50V		
	Cg113	C46-1710-47	Mylar	0.1μF	±20		
	Cg114	C46-1715-35	Mylar	0.015μΙ			
	Cg115	C46-1727-35	Mylar	0.027μΙ			
	Cg116	C46-1715-35	Mylar	0.015μ			İ
	Cg117	C25-1747-47	Electrolytic				
	Cg118	C52-1739-16	Ceramic	390pF	±10		
	Cg119	C24-1233-61	Electrolytic	33μF	16V	VV	
	Cg120	C24-1710-51	Electrolytic	1μF	50V	vv	
	_	E11-0065-05	Phone jack				
	Lg1	L31-0361-05	FM ANT Co	oil			
	Lg2	L31-0410-05	FM RF Coil				
	Lg3	L40-1091-41	Inductor				
	Lg4	L32-0210-05	FM OSC Co	oil			
	Lg5	L30-0282-05	FM IFT				
- 1	Lg6	L40-1511-03 or	Inductor				
ı		L'40-1511-44 or	Inductor				
ı		L40-1512-03 or	Inductor				
		L40-1512-44	Inductor				
	Lg7	L30-0314-05	FM IFT				☆
	Lg8	L40-1092-03 or	Inductor				
- 1		L40-1092-44	Inductor				
ı	Lg9	L32-0217-05	AM OSC Co	oil			☆
- 1	Lg10	L30-0284-05	AM Detecto	or Coil			
- 1	Lg11	L40-1021-03 or	Inductor				
- 1		L40-1021-45	Inductor				
- 1	Lg13	L79-0029-05	Low pass fil	ter			1
ı	Lg14	L79-0030-05	Low pass fil	ter			
	CFg1~3	L72-0052-15	FM Ceramic	filter			
ı	CFg4	L72-0030-05 or	AM Cerami	c filter			
١	`	L72-0035-05	AM Cerami	c filter			
-	VRg1	R12-1021-05	PC trimming	1 kΩ (SI	FPARA	TION)	
- 1	VRg2	R12-1040-05	PC trimming				
- 1	VRg3,4	R12-3045-05	PC trimming	-	/		
- 1	VRg5	R12-2016-05	PC trimming	-	00 Hz	LEVEL)	
- 1	VRg6	R01-4026-05	Potentiome				
-			(MIC)				☆
	Rg1	R43-6210-45	Carbon	100kΩ :	TE0/	1 /414/	
- [Rg2	R43-6247-05			±5% ±5%	1/4W	
	Rg3	R43-6210-15			±5% ±5%	1/4W 1/4W	
Į	Rg4	R43-6222-35			±5% ±5%	1/4W	
- 1	Rg5	R43-6247-25			±5%	1/4W	1
1	Rg6	R43-6210-25			±5%	1/4W	
	Rg7	R43-6210-15			±5%	1/4W	
	Rg8	R43-6210-15			±5%	1/4W	
	Rg9,10	R43-6210-35			±5%	1/4W	
	Rg11	R43-6222-25			±5%	1/4W	
-	Rg12	R43-6210-15			±5%	1/4W	
	Rg13	R43-6233-25			±5%	1/4W	
	Rg14	R43-6256-15			±5%	1/4W	
	Rg15	R43-6233-15			±5%	1/4W	
	Rg16	R43-6210-05			±5%	1/4W	
	D-17 10	R43-6210-15			±5%	1/4W	
- 1	Rg17,18	N43-0210-15	Carbon	10022 -	_5 /6	1/ 400	
	Rg19	R43-6233-15			±5%	1/4W	

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MODEL NINE G MODEL NINE G

POWER (X07-1650-80)

PARTS LIST

PARTS LIST

Ref. No.	Parts No.		Desc	ription		Re- marks	Ref. No.	Parts No.		Descri	ption		Re
Rg21	R43-6210-05	Carbon	10Ω	±5%	1/4W		Rg131,132	R43-6291-25	Carbon	0.110	⊥ F 0/	1/414/	t^-
Rg22	R43-6222-25	Carbon	$2.2k\Omega$	±5%	1/4W		Rg133	R43-6210-25	Carbon	9.1kΩ 1kΩ	±5% ±5%	1/4W	
Rg23	R43-6247-35	Carbon	$47k\Omega$	±5%	1/4W		Rg134,135	R43-6282-25	Carbon	8.2kΩ	±5%	1/4W	
Rg25	R43-6282-25	Carbon	$8.2k\Omega$	±5%	1/4W		Rg136	R43-6256-15	Carbon	560Ω	±5%	1/4W 1/4W	
Rg26	R43-6247-15	Carbon	470Ω	±5%	1/4W		Rg137	R40-8315-58	RC	1.5MΩ	±20%	1/4VV 1/2W	
Rg27	R43-6210-45	Carbon	100kΩ	±5%	1/4W		Rg138	R43-6247-35	Carbon	1.5 W Ω	±20%		
Rg28	R43-6227-15	Carbon	270Ω	±5%	1/4W		Rg139	R43-6233-25	Carbon	3.3kΩ	±5%	1/4W 1/4W	
Rg29	R43-6268-25	Carbon	$6.8k\Omega$	±5%	1/4W		Rg140	R43-6247-35	Carbon	47kΩ	±5%	1/4W	
Rg30	R40-8310-68	RC	$10M\Omega$	±20%	1/2W		Rg141	R43-6247-25	Carbon	4.7kΩ	±5%	1/4W	
Rg31	R43-6210-35	Carbon	$10k\Omega$	±5%	1/4W		Rg142	R43-6222-25	Carbon	2.2kΩ	±5%	1/4W	
Rg32	R43-6233-35	Carbon	$33k\Omega$	±5%	1/4W		Rg143	R43-6210-25	Carbon	1kΩ	±5%	1/4W	
Rg33	R43-6212-35	Carbon	$12k\Omega$	±5%	1/4W	1 1	Rg144	R43-6210-45	Carbon	100kΩ	±5%	1/4W	
Rg34	R43-6233-35	Carbon	$33k\Omega$	±5%	1/4W		Rg146	R43-6210-45	Carbon	100kΩ	±5%	1/4W	
Rg35	R43-6222-35	Carbon	$22k\Omega$	±5%	1/4W		Rg147	R43-6210-25	Carbon	1kΩ	±5%	1/4W	
Rg36	R43-6222-15	Carbon	220Ω	±5%	1/4W		Rg148	R43-6233-25	Carbon	$3.3k\Omega$	±5%	1/4W	
Rg37	R43-6210-35	Carbon	$10k\Omega$	±5%	1/4W		Rg149	R43-6210-05	Carbon	10Ω	±5%	1/4W	
Rg38	R43-6256-35	Carbon	$56k\Omega$	±5%	1/4W		Rg150	R43-6243-25	Carbon	$4.3k\Omega$	±5%	1/4W	
Rg39	R43-6233-35	Carbon	$33k\Omega$	±5%	1/4W		Rg151,152	R43-6210-35	Carbon	$10k\Omega$	±5%	1/4W	
Rg40	R43-6222-35	Carbon	$22k\Omega$	±5%	1/4W	,	Rg153,154	R43-6222-25	Carbon	$2.2k\Omega$	±5%	1/4W	
Rg41	R43-6247-35	Carbon	$47k\Omega$	±5%	1/4W		Rg155,156	R43-6282-45	Carbon	820kΩ	±5%	1/4W	
Rg42,43	R43-6210-35	Carbon	10kΩ	±5%	1/4W		Rg157,158	R43-6282-25	Carbon	$8.2k\Omega$	±5%	1/4W	
Rg44	R43-6215-35	Carbon	15kΩ	±5%	1/4W								
Rg45	R43-6247-35	Carbon	47kΩ	±5%	1/4W		Sg1	S42-3023-05	Pushbutte	on switch	(3 key)		☆
Rg51	R43-6222-15	Carbon	220Ω	±5%	1/4W		Sg2	S42-5010-05	Pushbutte	on switch	(5 key)		☆
Rg52	R43-6210-15	Carbon	100Ω	±5%	1/4W		Sg3	S31-6011-05	Slide swit	tch			☆
Rg53	R43-6215-25	Carbon	1.5kΩ	±5%	1/4W								
Rg54	R43-6256-25	Carbon	5.6kΩ	±5%	1/4W		Qg1	V09-0124-10	FET 2SK	51			
Rg55	R43-6233-15	Carbon	330Ω	±5%	1/4W		Qg2	V03-0535-10	Transisto	2SC535	A,B)		
Rg56,57	R43-6210-35	Carbon	10kΩ	±5%	1/4W		Qg3	V03-1342-00	Transisto	2SC134	2		
Rg58	R43-6222-15	Carbon	220Ω	±5%	1/4W		Qg4	V03-1923-00	Transisto	2SC192	3		1
Rg59	R43-6222-25	Carbon	2.2kΩ	±5%	1/4W		Qg5	V09-0122-50		88(L,M,N)			
Rg60	R43-6247-35	Carbon	47kΩ	±5%	1/4W			V09-0126-60		17(Y,GR,			1
Rg61	R43-6215-35	Carbon	15kΩ	±5% ±5%	1/4W			V09-0127-30		105(F,H,J)			
Rg62 Rg71	R43-6210-35	Carbon	10kΩ 150Ω	±5% ±5%	1/4W		Qg6∼8	V03-0345-05	1	2SC828		r	
Rg72	R43-6215-15 R43-6282-25	Carbon Carbon	8.2kΩ	±5%	1/4W	1		V03-0348-05	1	2SC945			
Rg73	R43-6210-25	Carbon	1kΩ	±5%	1/4W 1/4W		Qg9	V01-0170-05		2SA733			
Rg74	R43-6210-35	Carbon	10kΩ	±5%	1/4W			V01-0564-50		2SA564			
Rg75	R43-6222-35	Carbon	22kΩ	±5%	1/4W		Qg10	V03-0345-05		2SC828		•	
Rg77,78	R43-6268-25	Carbon	6.8kΩ	±5%	1/4W		Qq11,12	V03-0348-05	1	2SC945			
Rg79,80	R43-6282-45	Carbon	820kΩ	±5%	1/4W		ug11,12	V03-0456-05	Transistor				
Rg81,82	R43-6222-25	Carbon	2.2kΩ	±5%	1/4W		Qg13,14	V03-1845-20		2SC184			
Rg83,84	R43-6247-25	Carbon	4.7kΩ	±5%	1/4W		ug13,14	V09-0122-50	FET 2SK				
Rg85,86	R43-6268-25	Carbon	6.8kΩ	±5%	1/4W			V09-0126-60		17 (Y,GR,			
Rg87,88	R43-6222-45	Carbon	220kΩ	±5%	1/4W		Qg15,16	V09-0127-30 V03-0345-05		05 (F,H,J)			
Rg89,90	R43-6233-35	Carbon	33kΩ	±5%	1/4W		Qg15,16	V03-0348-05	Transistor				
Rg91,92	R43-6210-25	Carbon	1kΩ	±5%	1/4W	1	Qg17	V03-0348-05	Transistor Transistor				
Rg93,94	R43-6218-15	Carbon	180Ω	±5%	1/4W		Lagi,	V03-0430-03	Transistor				
Rg95,96	R43-6222-45	Carbon	220kΩ	±5%	1/4W			V03-1845-20	11011515101	2301040	(P,E,U)		
Rg97,98	R40-8310-68	RC	10ΜΩ	±20%	1/2W		Dg1∼7	V11-0076-05	Diode 1S	1555			
Rg99,100	R43-6222-45	Carbon	220kΩ	±5%	1/4W		Dg ,	V11-0070-05	Diode 1S				
Rg101∼	R43-6220-35	Carbon	$20k\Omega$	±5%	1/4W	1		V1110271103	Diode 13	2070			
104						1	ICg1	V30-0133-05	IC HA113	71//			
Rg105	R43-6222-05	Carbon	22Ω	±5%	1/4W		ICg2	V30-0196-05	IC HA119				
Rg111,112	R43-6210-15	Carbon	100Ω	±5%	1/4W		ŭ	V30-0245-10	IC LA124				
Rg113∼	R43-6210-45	Carbon	$100k\Omega$	±5%	1/4W		ICg3	V30-0244-10	IC LA335				
116							ICg5,6	V30-0264-10	IC HA145			1	
Rg117,118	R43-6247-15	Carbon	470Ω	±5%	1/4W					-			
Rg119,120	R43-6227-45	Carbon	$270 k\Omega$	±5%	1/4W								
Rg121,122	R43-6222-35	Carbon	$22k\Omega$	±5%	1/4W								
Rg123,124	R43-6256-35	Carbon	$\mathbf{56k}\Omega$	±5%	1/4W								
Rg125,126	R43-6256-15	Carbon	560Ω	±5%	1/4W								
Rg127,128	R43-6210-15	Carbon	100Ω	±5%	1/4W							-	
Rg129,130	R43-6222-25	Carbon	$2.2 k\Omega$	±5%	1/4W							1	

Ref. No.	Parts No.	D	escriptio	n	Re- marks
Ce1,2	C25-6522-57	Electrolytic 2	2 u F	35WV	
Ce3.4	C52-1747-16		70pF	±10%	
Ce5,6	C52-1733-16		30pF	±10%	
Ce7∼10	C24-1010-71	Electrolytic 1		10WV	
Ce11,12	C71-1722-05	Ceramic 2:	2pF	±5%	
Ce13,14	C71-1715-05		5pF	±5%	
Ce15,16	C24-1010-71	Electrolytic 1	00μF	10WV	
Ce17,18	C24-1847-61	Electrolytic 4	7μF	63WV	
Ce19~22	C24-1047-61	Electrolytic 4	7μF	10WV	
Ce23,24	C46-1768-36	Mylar 0.	.068µF	±10%	
Ce25	C46-2010-47	Mylar 0.	.1μF	±20%	
Ce30	C26-1247-67	Electrolytic 4	7μF	16WV	
Ce31	C25-1247-67	Electrolytic 4	7μF	16WV	
Ce32	C46-1710-47	Mylar 0.	.1μF	±20%	
Ce33	C24-1710-51	Electrolytic 1,	μF	50WV	
Ce34	C24-1022-81	Electrolytic 2	200μF	10WV	
Ce35,36	C90-0360-05	Electrolytic 10	0,000µF	56WV	
Ce37~40	C54-2710-39	Ceramic 0.	.01μF	+100%-0%	
Ce41,42	C24-1210-71	Electrolytic 10	00μF	16WV	
Ce43	C24-1410-71	Electrolytic 10	00μF	25WV	
Ce44	C24-1710-51	Electrolytic 1	uF	50WV	
Ce45	C24-1422-71	Electrolytic 22	20μF	25WV	
Ce46	C24-1410-71	Electrolytic 10	00μF	25WV	
Ce47	C24-1210-71	Electrolytic 10	00μF	16WV	
Ce48	C91-0023-05	Ceramic 0.	01μF	AC250WV	
Fe1	F05-5022-05	Fuse (5A) for	Pilot lam	ıp aı	
Fe2	F05-6021-05	Fuse (6A)			
Fe3	F05-3022-05	Fuse (3A)			
-	J13-0041-05	Fuse Clip × 6			
Le1,2	L40-1021-03	Inductor (1mH	١		
Le3,4	L39-0080-15	Phase compen		il	
VRe1,2	R12-0052-05	PC trimming 10	00Ω(B) B	ias	
Re1,2	R43-6210-25	Carbon 1kΩ	2 ±5	% 1/4W	1
Re3,4	R43-6247-35	Carbon 47k			
Re5,6	R43-6233-15	Carbon 330			- 1
Re7∼10	R43-6227-15	Carbon 270		.,	1
Re11,12	R43-6239-25	Carbon 3.9	kΩ ±5	% 1/4W	- 1
Re13~16	R43-6282-15	Carbon 820			1
Re17,18	R43-6218-35	Carbon 18k	cΩ ±5		- 1
Re19,20	R43-6222-35	Carbon 22k	Ω ±5	% 1/4W	- 1
Re21,22	R43-1212-15	Carbon 120	0Ω ± 5	% 1/4W	- 1
Re23,24	R43-6247-05	Carbon 479	2 ±5	% 1/4W	
Re25,26	R43-1233-15	Carbon 330	0Ω ±5	% 1/4W	1
Re27,28	R43-1256-05	Carbon 560	2 ±5	% 1/4W	- 1
Re29~32	R43-1222-15	Carbon 220	OΩ ±5		- 1
Re33~36	R43-6218-25	Carbon 1.8			
Re37~40	R43-6227-15	Carbon 270	0Ω ±5		
Re41~44	R43-6215-35	Carbon 15k			
Re45~48	R92-0113-05	Cement 0.3			1
Re49~52	R43-1247-95	Carbon 4.79			
Re53,54	R47-5647-95	RS 4.79			- 1
Re55,56	R47-5410-05	RS 10Ω			
Re60,61	R43-6268-35	Carbon 68k			
Re62	R43-6215-35	Carbon 15k	$\Omega \pm 5$		
Re63	R43-6222-45	Cárbon 220	kΩ ±5		- 1
Re64	R43-6233-45	Carbon 330	kΩ ±5		- 1
	R43-6210-35	Carbon 10k			- 1
	02.10.00				
Re65,66 Re67	R43-6282-35	Carbon 82k			
			Ω ±5	% 1/4W	

Ref. No.	Parts No.		Descri	ption		Re mar
Re70	R43-6210-25	Carbon	1kΩ	±5%	1/4W	1
Re71	R47-5568-15	RS	680Ω	±5%	2W	1
Re72	R43-6210-35	Carbon	10kΩ	±5%	1/4W	
Re73	R43-6282-25	Carbon	8.2kΩ	±5%	1/4W	
Re74	R43-6210-45	Carbon	100kΩ	±5%	1/4W	
Re75	R43-6227-25	Carbon	$2.7k\Omega$	±5%	1/4W	
Re76	R43-6212-25	Carbon	$1.2k\Omega$	±5%	1/4W	
Re77,78	R47-5510-15	RS	100Ω	±5%	2W.	
Re79	R47-5533-15	RS	3300	±5%	2W	1
Re80	R43-6247-25	Carbon	$4.7k\Omega$	±5%	1/4W	
Re81	R43-6282-25	Carbon	8.2kΩ	±5%	1/4W	1
Re82	R43-6218-25	Carbon	1.8 k Ω	±5%	1/4W	
Re83	R47-5512-15	RS	120Ω	±5%	2W	
Re84,85	R47-5518-15	RS	180Ω	±5%	2W	
Re86	R47-5533-15	RS	330Ω	±5%	2W	}
Re87 Re88	R47-5439-25	RS	3.9kΩ	±5%	1W	
1600	R47-5410-25	RS	1kΩ	±5%	1W	
Se1	S31-2046-05	Slide swi	tch (Voltaç	ge select	or)	
RLe1	S51-4034-05	Relay				
Qe1∼4	V01-0189-05	Transisto	r 2SA872	(E) or		1
	V01-0921-10		r 2SA921			
Ωe5,6	V01-0198-05		r 2SA872	•		
	V01-0872-00	Transisto	r 2SA872	Δ.		
De 7.8	V03-1775-00	Transisto	r 2SC1775	or		
	V03-1775-30	Transisto	r 2SC1775	5A		
Ωe9,10	V03-0451-05	Transisto	r 2SC1885	5 (Q,R)	*	
De 11,12	V01-0912-20	Transisto	2SA912	(Q,R)		
Ωe13,14	V01-0084-05	Transisto	2SA733	(R,Q) or		
	V02-0725-20	Transisto	2SB725	(Q,R)		
Ωe15∼18	V03-0270-05	Transistor	2SC945	(R,Q) or		
	V04-0767-20	Transistor	2SD767(Q,R)		
De 19,20	V01-0084-05		2SA733			
	V02-0725-20	1	2SB725 (
Ωe21,22	V03-0468-05	1	2SC1913			
Ωe23,24	V01-0188-05	1	2SA913			
Ωe25	V03-0270-05	1	2SC945 (
	V04-0767-20	1	2SD767			
De26	V01-0084-05		2SA733 (
1-27	V02-0725-20	1	2SB725 (
Ωe27	V03-0270-05		2SC945(I			
1628	V04-0767-20		2SD767 (
le28	V03-1775-00		2SC1775			
Ωe29	V03-1775-30 V03-0494-05	1	2SC1775		1	
1023	V03-0494-05 V03-2274-20		2SC1509 2SC2274		1	
Ωe30	V04-0330-00	Transistor		N(E,F)	I	
2e30 Ωe31	V04-0330-00 V03-1775-00		2SD330 2SC1775	0.5		
	V03-1775-30	1	2SC1775			
e32,33	V01-0173-05	1	2SA850 d			
	V01-01/3-05		2SA777 (
e1,2	V11-5100-10		25A777 (TV-4H (W)	_,,	j	
)e1,2)e3∼8	V11-0271-05	Diode 1S2			1	
	V11-0271-05	Diode 1S2			1	
0e9∼12	V11-0273-05	Diode 152			- 1	
e13,14	V11-0273-05	Diode 152				
)e15,14	V11-0213-05	Diode VO				
e16	V11-0273-09		C-51-12*1	ı	ŀ	
De17	V11-4102-30	Zener Dioc				
e18	V11-0287-05	Zener Dioc				
7.5	3 320,-00		~ * * * * * * * * * * * * * * * * * * *			



PARTS LIST

TONE (X11-1510-80)

Ref. No.	Parts No.		Descript	tion		Re- mark
 Ci1,2	C24-0822-71	Electrolytic	220uF	6.3WV		
Ci1,2 Ci3,4	C24-1010-71	Electrolytic		10WV		
Ci5,6	C25-1410-67	Electrolytic		25WV		
Ci7~10	C46-1768-26	Mylar		4F ±10%		İ
Ci11,12	C46-1739-36	Mylar		±10%		
	C46-1733-36	Mylar	-	μF ±10%		
Ci13,14	C52-1733-16	Ceramic	330pF	±10%		
Ci15,16		Electrolytic		35WV		
Ci17,18	C25-6522-57					1
Ci19,20	C24-1010-71	Electrolytic		25WV		
Ci21,22	C25-1410-67	Electrolytic				1
Ci23~26	C46-1710-46	Mylar	0.1μF	±10%		
Ci27,28	C25-6522-57	Electrolytic		35WV		
Ci29,30	C25-1710-57	Electrolytic		50WV		
Ci31,32	C24-1010-71	Electrolytic				1
Ci33,34	C25-1410-67	Electrolytic	10μF	25WV		1
Ci35,36	C25-6522-57	Electrolytic		35WV		
Ci37,38	C52-1712-26	Ceramic		μF ±10%		1
Ci39,40	C46-1712-46	Mylar	$0.12 \mu F$	±10%		
Ci41,42	C46-1722-36	Mylar	0.022μ	F ±10%		
Ci43,44	C24-1410-71	Electrolytic	100μF	25WV		1
Ci45,46	C71-1722-06	Ceramic	22pF			
VRi1	R06-5039-05	Potentiome 200kΩ(M		Balance)		
VRi2	R08-5039-05	Potentiome	ter			
VRi3∼5	R06-4039-05	Potentiome 50kΩ(B) D	ter			
Ri1,2	R43-6247-05	Carbon	47Ω	±5%	1/4W	
Ri3,4	R43-6239-15	Carbon	390 Ω	±5%	1/4W	
Ri5,6	R43-6210-35	Carbon	10kΩ	±5%	1/4W	1
Ri7.8	R43-6227-25	Carbon	$2.7k\Omega$	±5%	1/4W	
Ri9,10	R43-6212-25	Carbon	$1.2k\Omega$	±5%	1/4W	
Ri11,12	R43-6215-35	Carbon	15kΩ	±5%	1/4W	1
Ri13,14	R43-6239-25	Carbon	$3.9k\Omega$	±5%	1/4W	
Ri15,16	R43-6239-35	Carbon	39kΩ	±5%	1/4W	
Ri17,18	R43-6222-15	Carbon	220Ω	±5%	1/4W	
Ri19~22	R43-6233-25	Carbon	3.3kΩ	±5%	1/4W	
	R43-6227-35	Carbon	27kΩ	±5%	1/4W	
Ri23~26	R43-6230-25	Carbon	3kΩ	±5%	1/4W	
Ri27~30	1	Carbon	6.8kΩ	±5%	1/4W	
Ri31,32	R43-6268-25	Carbon	160kΩ	±5%	1/4W	
Ri33,34	R43-6216-45		33kΩ	±5%	1/4W	
Ri35,36	R43-6233-35	Carbon				
Ri37,38	R43-6247-25	Carbon	4.7kΩ	±5%	1/4W	
Ri39,40	R43-6215-25	Carbon	1.5kΩ	±5%	1/4W	
Ri41~44	R43-6243-25	Carbon	4.3kΩ	±5%	1/4W	1
Ri45~48	R43-6227-35	Carbon	27kΩ	±5%	1/4W	1
Ri49,50	R43-6216-45	Carbon	160kΩ	±5%	1/4W	
Ri51,52	R43-6233-35	Carbon	$33k\Omega$	±5%	1/4W	
Ri53.54	R43-6247-25	Carbon	$4.7k\Omega$	±5%	1/4W	
Ri55,56	R43-6215-25	Carbon	1.5k Ω	±5%	1/4W	
Ri57,58	R43-6239-35	Carbon	$39k\Omega$	±5%	1/4W	1
Ri59,60	R43-6247-35	Carbon	$47k\Omega$	±5%	1/4W	
Ri61,62	R43-6218-35	Carbon	18k Ω	±5%	1/4W	
Ri63,64	R43-6210-25	Carbon	1kΩ	±5%	1/4W	
Ri65,66	R43-6233-45	Carbon	330kΩ	±5%	1/4W	
Ri67,68	R43-1233-05	Carbon	33Ω	±5%	1/4W	
,						
Si1	S33-2034-05	Lever swit				1.
Si2	S42-2022-05	Pushbutto	n (Filter)			☆
Qi1,2	V09-0092-05	Transistor	2SK68A	(L,M)		
	100 0002 00					
Qi3,4	V01-0198-05	Transistor	2SA872	or		- 1

Ref. No.	Parts No.	Description	Re- marks
Qi5,6	V03-1775-00 V03-1845-20	Transistor 2SC1775 or Transistor 2SC1845 (F.E.U)	
Qi7~10	V01-0198-05 V01-0992-10	Transistor 2SA872 or Transistor 2SA992 (F,E)	

SPEAKER SELECTOR (X13-2550-80)

Ref. No.	Parts No.	ı	Description		Re- marks
Ch1,2	C24-1047-61	Electrolytic 4	7μF 10W	v	
Ch3,4	C46-1722-37	Mylar C	0.022µF ±20	%	
Ch5,6	C25-6522-57	Electrolytic 2	2.2μF 35W	v	
-	E20-1206-05	Speaker term	inal		☆
VRh1∼4	R12-1021-05	PC trimming	potentiometer	1kΩ(B)	
Rh1,2	R43-6239-25	Carbon 3.	9kΩ ±5%	1/4W	
Rh3,4	R47-5439-15	RS 39	90Ω ±5%	1W	
Rh5.6	R43-6256-15	Carbon 56	60Ω ±5%	1/4W	1
Rh7.8	R43-6218-25	Carbon 1.	8kΩ ±5%	1/4W	
Rh9~11	R40-8368-16	RC 68	30Ω ±10%	1/2W	
Rh12,13	R47-5456-15	RS 56	60Ω ±5%	1W	
Sh1	S42-3017-05	Pushbutton s	witch (Meter)		☆
Sh2	S42-3022-05	Pushbutton s	witch (Speaker	•)	
Dh1.2	V11-0400-05	Diode 1N34A			
Dh3.4	V11-0423-05	Diode 1N60I	FT		İ
Dh5~10	V11-0051-05	Diode 1N60			
THh1,2	V22-0007-05	Thermistor S	DT-20		

DOLBY (X14-1110-80)

Ref. No.	Parts No.	Description	Re- marks
Cv1,2	C81-1410-57	Tantalum 1μF 25WV	
Cv3,4	C46-1722-35	Mylar 0.022 μF ±5%	- 1
Cv9~12	C24-1410-61	Electrolytic 10μF 25WV	
Cv13,14	C49-2056-24	Film 0.0056μF ±2%	
Cv15,16	C24-1410-61	Electrolytic 10μF 25WV	
Cv17,18	C46-1733-45	Mylar 0.33μF ±5%	1
Cv19,20	C46-1710-45	Mylar 0.1μF ±5%	
Cv21,22	C46-1747-35	Mylar 0.047μF ±5%	
Cv23,24	C24-1410-61	Electrolytic 10μF 25WV	- 1
Cv25,26	C49-2047-24	Film 0.0047μF ±2%	
Cv27,28	C24-1410-61	Electrolytic 10μF 25WV	i
Cv29,30	C24-1222-71	Electrolytic 220µF 16WV	
Cv31,32	C49-2027-34	Film 0.027μF ±2%	
Cv33,34	C24-1710-51	Electrolytic 1µF 50WV	
Cv35,36	C24-1410-61	Electrolytic 10μF 25WV	- 1
Cv37	C24-1410-71	Electrolytic 100µF 25WV	
Cv39,40	C52-1733-16	Ceramic 330pF ±10%	
VRv1∼4	R05-5001-05	Potentiometer 100kΩ (B) (Dolbi)	☆



PARTS LIST/SEMICONDUCTOR SUBSTITUTIONS

SEMICONDUCTOR SUBSTITUTIONS

RV1.2 RV3.4 RV3.6210-45 RV9.10 RV3.11.12 RV9.10 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.12 RV3.6210-45 RV11.13 RV3.6210-45 RV17.18 RV3.6210-45 RV19.20 RV3.6210-45 RV21.22 RV3.6210-45 RV21.22 RV3.6210-45 RV21.22 RV3.6210-45 RV21.22 RV3.6210-45 RV21.22 RV3.6210-45 RV21.22 RV3.6221-25 RV3.6221-25 RV3.6221-25 RV3.6210-45 RV21.22 RV3.6210-45 RV3.6210	Ref. No.	Parts No.		Descri	iption		Re- marks
Rv3.4 R43-6247-45 Carbon 470kΩ ±5% 1/4W Rv5~8 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv9.10 R43-6227-45 Carbon 270kΩ ±5% 1/4W Rv11.12 R43-6215-45 Carbon 150kΩ ±5% 1/4W Rv13.14 R43-6268-45 Carbon 680kΩ ±5% 1/4W Rv15.16 R43-6233-25 Carbon 3.3kΩ ±5% 1/4W Rv17.18 R43-6218-15 Carbon 180Ω ±5% 1/4W Rv19.20 R43-6210-15 Carbon 120Ω ±5% 1/4W Rv21.22 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv23.24 R43-6247-35 Carbon 47kΩ ±5% 1/4W Rv27.28 R43-6224-5 Carbon 820kΩ ±5% 1/4W Rv29.30 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv3.36 R43-6210-25 Carbon <	Rv1,2	R43-6210-45	Carbon	100kΩ	±5%	1/4W	
Rv5~8 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv9.10 R43-6227-45 Carbon 270kΩ ±5% 1/4W Rv11.12 R43-6215-45 Carbon 150kΩ ±5% 1/4W Rv13.14 R43-6268-45 Carbon 680kΩ ±5% 1/4W Rv15.16 R43-6233-25 Carbon 3.3kΩ ±5% 1/4W Rv17.18 R43-6218-15 Carbon 180Ω ±5% 1/4W Rv19.20 R43-6210-15 Carbon 120Ω ±5% 1/4W Rv21.22 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv21.22 R43-6247-35 Carbon 100kΩ ±5% 1/4W Rv25.26 R43-6282-45 Carbon 820kΩ ±5% 1/4W Rv27.28 R43-6210-45 Carbon 2.7kΩ ±5% 1/4W Rv29.30 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv37 R40-8315-16 RC <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Rv9.10 R43-6227-45 Carbon 270kΩ ±5% 1/4W Rv11.12 R43-6215-45 Carbon 150kΩ ±5% 1/4W Rv13.14 R43-6268-45 Carbon 680kΩ ±5% 1/4W Rv15.16 R43-6233-25 Carbon 3.3kΩ ±5% 1/4W Rv17.18 R43-6218-15 Carbon 180Ω ±5% 1/4W Rv19.20 R43-6212-15 Carbon 120Ω ±5% 1/4W Rv21.22 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv23.24 R43-6247-35 Carbon 100kΩ ±5% 1/4W Rv23.24 R43-6227-25 Carbon 47kΩ ±5% 1/4W Rv27.28 R43-6227-25 Carbon 2.7kΩ ±5% 1/4W Rv29.30 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv35.36 R43-6210-25 Carbon 1kΩ ±5% 1/4W Rv37 R40-8315-16 RC							
Rv11.12 R43-6215-45 Carbon 150kΩ ±5% 1/4W Rv13.14 R43-6268-45 Carbon 680kΩ ±5% 1/4W Rv15.16 R43-6233-25 Carbon 3.3kΩ ±5% 1/4W Rv17.18 R43-6218-15 Carbon 180Ω ±5% 1/4W Rv19.20 R43-6212-15 Carbon 120Ω ±5% 1/4W Rv21.22 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv23.24 R43-6247-35 Carbon 47kΩ ±5% 1/4W Rv25.26 R43-6282-45 Carbon 820kΩ ±5% 1/4W Rv27.28 R43-6210-45 Carbon 2.7kΩ ±5% 1/4W Rv29.30 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv35.36 R43-6210-25 Carbon 1kΩ ±5% 1/4W Rv37 R40-8315-16 RC 150Ω ±10% 1/2W Sv1 S01-7001-05 Rotary switch (DOLBY MODE)<							
Rv13.14 R43-6268-45 Carbon 680kΩ ±5% 1/4W Rv15.16 R43-6233-25 Carbon 3.3kΩ ±5% 1/4W Rv17.18 R43-6218-15 Carbon 180Ω ±5% 1/4W Rv19.20 R43-6212-15 Carbon 120Ω ±5% 1/4W Rv21.22 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv23.24 R43-6247-35 Carbon 47kΩ ±5% 1/4W Rv25.26 R43-6282-45 Carbon 820kΩ ±5% 1/4W Rv27.28 R43-6210-45 Carbon 2.7kΩ ±5% 1/4W Rv29.30 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv35.36 R43-6210-25 Carbon 1kΩ ±5% 1/4W Rv37 R40-8315-16 RC 150Ω ±10% 1/2W Sv1 S01-7001-05 Rotary switch (DOLBY MODE) ☆ Sv2 S33-2040-05 Lever switch (TAPE MONITOR) ☆ Qv1.2 V03-0270-05 Transistor 2SC945 (R,Q) Dv1.2 V11-0051-05 Diode 1N60							
Rv15.16 R43-6233-25 Carbon 3.3kΩ ±5% 1/4W Rv17.18 R43-6218-15 Carbon 180Ω ±5% 1/4W Rv19.20 R43-6212-15 Carbon 120Ω ±5% 1/4W Rv21.22 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv23.24 R43-6247-35 Carbon 47kΩ ±5% 1/4W Rv25.26 R43-6282-45 Carbon 820kΩ ±5% 1/4W Rv27.28 R43-6210-45 Carbon 2.7kΩ ±5% 1/4W Rv29.30 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv35.36 R43-6210-25 Carbon 1kΩ ±5% 1/4W Rv37 R40-8315-16 RC 150Ω ±10% 1/2W Sv1 S01-7001-05 Rotary switch (DOLBY MODE) ☆ Sv2 S33-2040-05 Lever switch (TAPE MONITOR) ☆ Qv1.2 V03-0270-05 Transistor 2SC945 (R,Q) Dv1.2 V11							
Rv17.18 R43-6218-15 Carbon 180Ω ±5% 1/4W Rv19.20 R43-6212-15 Carbon 120Ω ±5% 1/4W Rv21.22 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv23.24 R43-6247-35 Carbon 47kΩ ±5% 1/4W Rv25.26 R43-6282-45 Carbon 820kΩ ±5% 1/4W Rv27.28 R43-6227-25 Carbon 2.7kΩ ±5% 1/4W Rv29.30 R43-6210-45 Carbon 100kΩ ±5% 1/4W Rv35.36 R43-6210-25 Carbon 1kΩ ±5% 1/4W Rv37 R40-8315-16 RC 150Ω ±10% 1/2W Sv1 S01-7001-05 Rotary switch (DOLBY MODE) ☆ Sv2 S33-2040-05 Lever switch (TAPE MONITOR) ☆ Qv1.2 V03-0270-05 Transistor 2SC945 (R,Q) Dv1.2 V11-0051-05 Diode 1N60			1				
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Sv2 S33-2040-05 Lever switch (TAPE MONITOR) ☆ Qv1.2 V03-0270-05 Transistor 2SC945 (R,Q) Dv1.2 V11-0051-05 Diode 1N60	Rv37	R40-8315-16	RC	150Ω	±10%	1/2W	
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Dv1,2 V11-0051-05 Diode 1N60	Sv2	S33-2040-05					☆
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Semiconductor Name	Substitutions
2SA747	2SA747 or Pc \geq 100W, VCEO \geq 120V, Ic \geq 10A, hfe=50~100, ft=15 MHz
2SC1116	2SC1116A or Pc ≥ 100W, VcEo ≥ 120V, lc ≥ 10A, hfe=50~100, fT=15 MHz
X05-1570-80	·
2SA733(Q.P)	2SA564A(Q.R.S), 2SA561(Y)
2SC535(A,B)	2SC381(O,R), 2SC785(R)
2SC945(Q,P)	2SC828A(Q,R), 2SC734(Y), 2SC1213A(C,D)
	2SC1890(D)
2SC1342	2SC785(R), 2SC1923
2SC1845(F.E.U)	2SC1222, 2SC1400
2SC1923	2SC785(R), 2SC381
2SK61	_
2SK117(Y,GR,BL)	2SK68(L,M,N), 2SK68A, 2SK105(F,H,J)
X07-1650-80	
2SA733(R,Q)	2SA539, 2SA561, 2SA564, 2SB725(Q,R)
2SA872	2SA872A
2SA850	2SA777(Q,R)
2SA912(Q,R)	_
2SA913(Q,R)	2SA839, 2SB536
2SA921(S)	2SA872(E)
2SC945(R,Q)	2SD767(Q,R)
2SC1775	2SC1775A
2SC1885(Q,R)	~
2SC1913(Q,R)	2SC381(R), 2SC1669
2SC2274(E,F)	2SC1509
2SD330	_
X11-1510-80	
2SA992(F,E)	2SA872, 2SA872A(E,F)
2SC1845(F,E,U)	2SC1775, 2SC1775A(E,F),2SC1890(D,E,F)
20/201/11	2SC1890A(D,E,F), 2SC2088, 2SC2089
2SK68A(L,M)	-
X14-1110-80	
2SC945(P,Q)	2SC734(O,Y), 2SC1213A(B,C)

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